



**ENGINEERED  
PERFORMANCE STANDARDS  
for  
Real Property Maintenance Activities**

***PREVENTIVE/RECURRING  
MAINTENANCE HANDBOOK***

**ARMY TB 420-34  
NAVFAC P-717.0  
AIR FORCE MANUAL 85-59**

**1987**

**APPROVED FOR PUBLIC RELEASE**

**DEPARTMENTS OF THE ARMY,  
THE NAVY AND THE AIR FORCE**

## FOREWORD

This handbook provides guidance to Planner-Estimators for applying Engineered Performance Standards to typical preventive maintenance tasks. Proper use of the data in this handbook will provide realistic and consistent labor hour benchmarks which managers can use to evaluate performance.

Comments and suggestions about this handbook are invited and should be sent to:

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Addressed feedback forms are included in the back of this handbook for forwarding comments.

Local reproduction of selected pages in this handbook is necessary since the standards are formatted as worksheets to simplify application.

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## CHAPTER 1.

### Introduction

The Preventive/Recurring Maintenance (P/RM) Handbook provides a method of applying Engineered Performance Standards (EPS) to your preventive maintenance workload. Preventive maintenance is synonymous with recurring maintenance for this handbook: either "Preventive Maintenance" or "PM" is used herein for consistency. Preventive maintenance of static and dynamic equipment and systems is a large part of the Department of Defense (DOD) Real Property Maintenance workload. A well planned, scheduled and controlled PM program will generally reduce overall maintenance costs. Equipment and systems kept in good condition reduce costly breakdown repairs and the resulting disruptions to planned work schedules.

The standards in this handbook are presented in a PM guide format for ease of application since preventive maintenance is typically worked in accordance with predetermined procedures or guides. This handbook is not a preventive maintenance guide and is not to be used as such. Preventive maintenance procedures generally list checkpoints and the frequency of performance. A checkpoint is a specific inspection or service performed on or in relation to a particular system or piece of equipment. Preventive maintenance checkpoints are usually developed locally for specific equipment or systems found at the installation. Sources of checkpoints may be manufacturer's maintenance guides, service maintenance and inspection guides, local requirements and conditions, and your PM mechanics' and supervisors' advice.

The checkpoints for systems or equipment in this handbook represent a composite of the most common inspections or services. Local PM procedures may include all or part of the checkpoints listed. The common checkpoints are a consolidation of information from numerous DOD Services' PM procedures and guides, equipment or system operating and maintenance manuals, and discussions with people working in preventive maintenance. These common checkpoints were determined by the NAVFAC Industrial Engineering Center (NIEC) and compared with on-site performance at various DOD installations.

Standard times were developed through industrial engineering techniques and are given for each checkpoint in this handbook. Preventive maintenance checkpoint standard times are comparable to operation times in existing EPS terms. The sum of a combination of checkpoint times for a frequency of performance compares to a task time, e.g., sum of checkpoint times for the monthly PM of an air compressor.

The PM time standards in this handbook do not include travel time, job preparation or craft allowances. These times and allowances, found in the Planner and Estimator's Deskguide (TB 420-2, NAVFAC P-701.Q), are added to EPS craft hours through the nomograph. The nomograph is difficult to use for PM jobs because most fall in the one to four hour time frame and are generally accounted for in fractional hour increments.

e.g., 2.4 hours. The General Data Factors chart on page 13 was developed to replace the nomograph for adding travel time, job preparation time, and craft allowances to PM craft hours. The General Data Factors provide a fast and easy method for calculating the total PM job time. The procedure for using the General Data Factors is included in Chapter 3, EPS Application Instructions.

Feedback from handbook users is encouraged and is necessary to accurately determine future revision and development requirements. Please forward your suggestions for needed coverage or handbook improvement to the NIEC. Feedback sheet forms for this purpose may be found at the back of the book.

## CHAPTER 2.

### Application

This handbook is set up in a worksheet format to reduce the effort of applying Engineered Performance Standards to your preventive maintenance workload. The handbook contains a P/RM Standards Sheet listing established checkpoints for each system or piece of equipment currently covered. A P/RM Standards Sheet (Continuation) Form (back of book) is provided to accommodate additional EPS checkpoints. The P/RM Computation Sheet accompanying each Standards Sheet, allows utilization of non-EPS checkpoints and is used to compute the total job times. When using the P/RM Handbook, these three sheets replace the EPS Job Phase Calculation Sheets normally used to calculate EPS job times. The checkpoints on the Standards Sheet do not include time for travel, job preparation, and craft allowances. The General Data Factors chart on page 13 provides factors to add these times and allowances to the EPS craft hours. Use copies of the worksheets to develop your preventive maintenance performance standards.

You must determine the preventive maintenance checkpoints and frequency of accomplishment for each system or piece of equipment before applying the EPS standards in this handbook. The Standards Sheets are not preventive maintenance procedures or guides. Each installation should have specific preventive maintenance guides or procedures for each system or piece of equipment. All checkpoints listed on the Standards Sheets may not be needed, or you may need to add some not listed. Once you determine your preventive maintenance requirements, develop the PM job time by frequency of accomplishment using the EPS Application Instructions in Chapter 3. Generally the basic instructions of the Planner and Estimator's Deskguide - TB 420-2, P-701.0 shall be followed, however, the instructions in Chapter 3 will take precedence. Engineered Performance Standards should only be applied by persons who have attended an EPS training course.

## CHAPTER 3.

### EPS Application Instructions

Refer to the example on pages 9 through 12 and the following steps when using the P/RM Standards Sheet, the P/RM Standards Sheet (Continuation) and the P/RM Computation Sheet.

NOTE: It is recommended that reproductions of the above forms be used as working documents.

- Step 1. Select the appropriate P/RM Standards Sheet and P/RM Computation Sheet for the equipment being worked using the Table of Contents or Index to locate.
- Step 2
  - a. Select checkpoints on the Standards Sheet applicable to the PM schedule of the equipment.
  - b. Enter the number of occurrences for each checkpoint selected in column 1 (Occur). Occurrences are the number of times an operation is performed on each piece of equipment.
- Step 3. ADDITIONAL EPS CHECKPOINTS. The P/RM Standards Sheet (Continuation) is provided (back of book) to accommodate EPS checkpoints other than those found on the P/RM Standards Sheet. If no additional EPS checkpoints are required, skip Step 3 and proceed to Step 4.
  - a. Record the equipment description and Standard No. (of the standard selected in Step 1) on a P/RM Standards Sheet (Continuation).
  - b. Line out TOTAL EPS CRAFT HOURS on line 3 of the P/RM Standards Sheet. Line 3 on the P/RM Standards Sheet (Continuation) will now take on this function.
  - c. Select the required additional EPS checkpoints from other Standards Sheets within this book and/or other EPS handbooks.
  - d. Add a checkpoint for "additional work locations" when two or more pieces of equipment are to be worked at different locations, and time for travel between locations is not provided for by a checkpoint in the standard being used.

For example, if the package air conditioning unit in the sample is to be worked after the first job of the day on that same day, then this checkpoint would be applicable since there is no checkpoint for travel (additional locations) in Standard No. 10750. In this instance, the

EPS CRAFT HOURS would be .07 hours per man in accordance with the General Handbook, P-701.0. An example of the additional travel provision being included in a standard would be checkpoint 80118 of Standard No. 80100.

- e. Record checkpoint number, checkpoint description, EPS craft hours and number of occurrences on the Continuation Sheet in the same manner as seen on the parent Standards Sheet. The assigned EPS designator from the source handbook shall be the checkpoint number.

In the example, checkpoint 35628 is taken from Standard No. 35625 in this handbook and checkpoint PWA-5-I is taken from the General Handbook, P-701.0.

- Step 4. a. Multiply the time in the column labeled EPS CRAFT HOURS by the number of occurrences in column 1 (Occur) for each checkpoint used on the Standards and Continuation Sheets. This gives you the total craft time for each checkpoint.

- b. Record the total craft time in column 2 for each checkpoint on its respective line on each sheet.

In the example, checkpoint 10756 shows an occurrence of "2" in column 1. This means that the particular air conditioning package unit contains 2 filters.

- Step 5. a. Sum all the figures in column(s) 2. This gives the total EPS craft hours.
- b. Enter TOTAL EPS CRAFT HOURS on line 3 of the Standards Sheet or Standards Sheet (Continuation). See Step 3b.
  - c. Enter TOTAL EPS CRAFT HOURS on line 7 of the P/RM Computation Sheet.

In the example, TOTAL EPS CRAFT HOURS equals to 1.070.

- Step 6. Enter the information in blocks 1 through 6 on the P/RM Computation Sheet as follows:

- Block 1, JO# -- Number assigned to, and used for identification of the job.
- Block 2, LOCATION -- Site where job is to be performed. Usually a building number is used.
- Block 3, CRAFT/WORK CENTER -- Designation of group or trade responsible for accomplishment of job.

Block 4, TRAVEL ZONE -- Area, designated by number, on travel zone map within which job location is found.

Block 5, CREW SIZE -- Number of craftspersons assigned to the job.

Block 6, FREQUENCY -- The interval at which the PM job is repeated, e.g. weekly, monthly, quarterly, etc.

NOTE: It is necessary to develop a separate estimate for each frequency used. The selection of checkpoints will vary according to the frequency specified in your PM schedule. In the example, checkpoints are selected for quarterly (Q) PM requirements. A monthly (M) PM would not normally require all of these same checkpoints.

Step 7. a. Refer to the General Data Factors chart (page 13) and select a General Data Factor using the applicable craft area, crew size and travel zone. This figure is found at the intersection of the CRAFT/CREW SIZE column and the TRAVEL ZONE line. Add 0.1 to this figure if the work is hazardous. (See NOTE at bottom of page 13)

b. Enter the General Data Factor on line 8 of the P/RM Computation Sheet.

In the example, the craft area is heating, cooling and ventilating, the crew size is 2 (Multi), and the travel zone is 5. The resulting General Data Factor is 1.4.

Step 8. a. Multiply TOTAL EPS CRAFT HOURS (block 7) by the GENERAL DATA FACTOR (block 8).

b. Enter the results of Step 8A in TOTAL EPS TIME (blocks 9 and 16).

Step 9. NON-EPS CHECKPOINTS. Columns 10, 11, 12, 13, 14 and line 15 on the P/RM Computation Sheet provide for the incorporation of non-EPS checkpoints into an estimate. If no non-EPS checkpoints are required, skip Step 9 and proceed to Step 10.

a. Enter the checkpoint number in column 10.

b. Enter the non-EPS checkpoint description in column 11.

c. Enter non-EPS hours in column 12.

d. Enter the number of occurrences for each non-EPS checkpoint in column 14.

e. Multiply each non-EPS hours in column 12 by the number of occurrences in column 13 and enter the total time for each checkpoint on its respective line.

g. Total the figures in column 14 and enter the sum in line 15. In the example this total is .284 hours.

Step 10. a. Add lines 15 and 16 on the P/RM Computation Sheet and round this sum up to the next highest tenth.

b. Enter the rounded sum of line 17. This gives you the TOTAL JOB TIME.

In the example, the sum of lines 15 and 16 is 1.782 hours which rounds to 1.8 hours on line 17.

The performance standard can now be included in you local P/RM management system and can be used indefinitely. Changes are necessary only when the equipment or system PM requirements change.

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

AIR CONDITIONER, PACKAGE UNIT

STANDARD NO.

10750

STEP 2b

STEP 4

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10751	Remove and install latch or finger-screw type access panel.	.027		
10752	Remove and install access panel, bolted or screwed on.	.037	2	.074
10753	Turn power off and on.	.006	2	.012
10754	Check compressor operation. Observe refrigerant in sight glass while compressor is operating.	.025	1	.025
10755	Check compressor oil level.	.004	1	.004
10756	Remove and install cartridge type filter (per filter).	.007	2	.014
10757	Visually inspect coil.	.021	1	.021
10758	Clean coil, drip pan and blower.	.296	1	.296
10759	Check electrical wiring and connections. Tighten loose connections.	.092	1	.092
10760	Inspect motor for excessive heat and noise.	.017	1	.017
10761	Lubricate shaft bearings and motor.	.036	1	.036
10762	Check piping for refrigerant, water, and oil leaks. Tighten loose connections if required.	.059	1	.059
10763	Check belt for wear, proper tension, and alignment. Adjust tension and/or alignment if required. Change belt if required.	.022	1	.022
10764	Inspect unit for corrosion.	.021	1	.021
10765	Clean, prime and paint area of corrosion (per sq. ft.).	.041	2	.082
10766	Check and adjust automatic on/off timers.	.014		
10767	Recharge compressor (per 50 lb cylinder).	1.344		
1 - TOTAL EPS CRAFT HOURS -				

STEP 3b



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR CONDITIONER, PACKAGE UNIT (Continued)		10750		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
10768	Clean area around unit by sweeping and picking up debris (per 100 sq. ft.).	.051		
10769	Fill out maintenance record/report.	.017	1	.017
<sup>3</sup> TOTAL EPS CRAFT HOURS				

P R M STANDARDS SHEET (Continuation)

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR CONDITIONER, PACKAGE UNIT		10750		
		STEP 4		
		STEP 3a		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
	STEP 3d			
35628	INSPECT AND CLEAN MOTOR CONTACTORS	.138	1	.138
PWA-51	ADDITIONAL MATERIAL HANDLING (UNIT LOCATED ON ROOF)	.035	4	.140
TOTAL EPS CRAFT HOURS				1.070

EQUIPMENT DESCRIPTION				STANDARD NO.	
AIR CONDITIONER, PACKAGE UNIT (Continued)				10750	
				1 JO # PM 54321	
STEP 6				2 LOCATION BLDG. 2143	
				3 FREQUENCY Q	
3 CRAFT/WORK CENTER HCV	4 TRAVEL ZONE 5	5 CREW SIZE 2			
7 TOTAL EPS CRAFT HOURS (FROM PREVIOUS SHEET)				STEP 5C → 1.070	
8 GENERAL DATA FACTOR (FROM PAGE				STEP 7b → 1.4	
9 TOTAL EPS TIME (LINE 7 X LINE 8)				STEP 8b → 1.50	
10 CHECK- POINT NO.	11 ADDITIONAL CHECKPOINTS	12 NON EPS HOURS	13 Occur	14 TOTAL	
1	CHECK WITH OPERATING PERSONNEL FOR DEFICIENCIES (5 MIN. = .083 HRS.)	.083	1	.083	
2	CLEAN 3 DIFFUSERS (4 MIN@)	.067	3	.201	
STEP 9					
15 TOTAL NON EPS TIME (SUM OF COLUMN 14)				.284	
16 TOTAL EPS TIME (LINE 9)				STEP 8b → 1.500	
17 TOTAL JOB TIME (LINE 15 + LINE 16)				STEP 10b → 1.784	

TABLE 4.1

## GENERAL DATA FACTOR CHART

GENERAL DATA FACTORS TABLE																				
Craft Area	Crew Size	GENERAL DATA FACTORS TABLE																		
		Shop	1	2	Travel Zones				6	7	8	9	10	Travel Zones						
					3	4	5								11	12	13	14	15	16
Boiler	Multi	1.45	1.50	1.52	1.54	1.56	1.59	1.61	1.63	1.69	1.73	1.79	1.84	1.90	1.95	2.08	2.16	2.24		
Carpentry (General)	Single	1.23	1.26	1.27	1.29	1.31	1.33	1.34	1.36	1.39	1.42	1.45	1.51	1.56	1.61	1.68	1.75	1.82		
	Multi	1.32	1.35	1.37	1.39	1.41	1.43	1.46	1.48	1.52	1.56	1.60	1.65	1.73	1.80	1.85	1.91	1.97		
(Roofing)	Single	1.32	1.34	1.36	1.37	1.40	1.42	1.44	1.47	1.49	1.52	1.58	1.65	1.69	1.76	1.83	1.90	1.98		
	Multi	1.41	1.45	1.46	1.51	1.53	1.56	1.58	1.60	1.62	1.67	1.74	1.82	1.88	1.93	1.98	2.08	2.21		
Cooling/Vent. (Mech.)	Single	1.26	1.29	1.31	1.33	1.34	1.36	1.39	1.40	1.42	1.45	1.50	1.56	1.60	1.67	1.73	1.78	1.85		
	Multi	1.29	1.33	1.35	1.37	1.39	1.41	1.44	1.46	1.47	1.54	1.58	1.63	1.71	1.77	1.83	1.89	1.95		
Electric/Electronics	Single	1.26	1.29	1.31	1.33	1.34	1.36	1.39	1.40	1.42	1.45	1.50	1.56	1.60	1.67	1.73	1.78	1.85		
	Multi	1.29	1.33	1.35	1.37	1.39	1.41	1.44	1.46	1.47	1.54	1.58	1.63	1.71	1.77	1.83	1.89	1.95		
Heating	Single	1.25	1.28	1.29	1.31	1.33	1.35	1.37	1.39	1.41	1.44	1.49	1.53	1.59	1.66	1.70	1.77	1.84		
	Multi	1.28	1.32	1.33	1.36	1.38	1.40	1.43	1.44	1.46	1.53	1.57	1.62	1.66	1.75	1.82	1.88	1.93		
Janitorial	Single	1.16	1.18	1.20	1.21	1.23	1.25	1.26	1.28	1.31	1.33	1.37	1.42	1.45	1.52	1.58	1.62	1.69		
	Multi	1.18	1.21	1.23	1.25	1.27	1.29	1.31	1.34	1.37	1.40	1.44	1.48	1.54	1.61	1.65	1.75	1.82		
Machine Shop	Single	1.31	1.33	1.35	1.37	1.39	1.41	1.43	1.45	1.48	1.51	1.56	1.60	1.66	1.73	1.78	1.85	1.92		
	Multi	1.33	1.36	1.38	1.40	1.42	1.44	1.47	1.51	1.53	1.57	1.61	1.66	1.74	1.81	1.87	1.92	1.98		
Machine Repairs	Single	1.19	1.42	1.43	1.45	1.48	1.50	1.52	1.53	1.57	1.60	1.65	1.72	1.77	1.84	1.91	1.98	2.06		
	Multi	1.49	1.53	1.55	1.57	1.59	1.62	1.64	1.67	1.70	1.72	1.77	1.82	1.87	1.93	2.05	2.11	2.20	2.27	
Masonry (General)	Single	1.24	1.26	1.28	1.29	1.32	1.34	1.35	1.37	1.40	1.43	1.48	1.52	1.59	1.65	1.69	1.76	1.83		
	Multi	1.34	1.37	1.39	1.42	1.43	1.46	1.48	1.52	1.55	1.58	1.63	1.71	1.77	1.83	1.89	1.95	2.08		
(Purchased concrete)	Single	1.33	1.36	1.37	1.40	1.41	1.43	1.45	1.48	1.50	1.53	1.58	1.64	1.69	1.76	1.83	1.90	1.98		
	Multi	1.43	1.46	1.50	1.52	1.54	1.57	1.59	1.61	1.64	1.71	1.76	1.82	1.88	1.93	1.98	2.12	2.20		
Moving & Rigging	Single	1.36	1.39	1.41	1.43	1.45	1.47	1.49	1.51	1.53	1.57	1.61	1.67	1.73	1.81	1.85	1.93	2.00		
	Multi	1.51	1.54	1.57	1.59	1.61	1.63	1.68	1.71	1.73	1.78	1.83	1.88	1.94	2.06	2.14	2.21	2.29		
Paint (General)	Single	1.19	1.21	1.23	1.25	1.26	1.28	1.30	1.32	1.34	1.36	1.41	1.45	1.50	1.57	1.61	1.67	1.74		
	Multi	1.20	1.24	1.25	1.27	1.29	1.31	1.34	1.36	1.39	1.42	1.46	1.54	1.58	1.63	1.67	1.77	1.84		
(Spray)	Single	1.21	1.24	1.25	1.27	1.28	1.31	1.32	1.34	1.36	1.40	1.43	1.49	1.52	1.59	1.65	1.70	1.76		
	Multi	1.23	1.26	1.27	1.29	1.31	1.34	1.36	1.38	1.41	1.44	1.48	1.56	1.58	1.65	1.74	1.81	1.86		
Pest Control	Single	1.19	1.21	1.23	1.25	1.26	1.28	1.30	1.32	1.34	1.36	1.41	1.45	1.50	1.57	1.61	1.67	1.74		
	Multi	1.23	1.26	1.27	1.29	1.31	1.34	1.36	1.38	1.41	1.44	1.48	1.56	1.58	1.65	1.74	1.81	1.86		
Pipefitting & Plumbing	Single	1.25	1.28	1.29	1.31	1.33	1.35	1.37	1.39	1.41	1.44	1.49	1.53	1.59	1.66	1.70	1.77	1.84		
	Multi	1.28	1.32	1.33	1.36	1.38	1.40	1.43	1.44	1.46	1.53	1.57	1.62	1.66	1.75	1.82	1.88	1.93		
Roads & Grounds (General)	Single	1.25	1.28	1.29	1.31	1.33	1.35	1.37	1.39	1.41	1.44	1.49	1.53	1.59	1.66	1.70	1.77	1.84		
	Multi	1.28	1.32	1.33	1.36	1.38	1.40	1.43	1.44	1.46	1.53	1.57	1.62	1.66	1.75	1.82	1.88	1.93		
(Laborers)	Single	1.28	1.31	1.33	1.35	1.36	1.39	1.41	1.43	1.44	1.48	1.52	1.58	1.64	1.69	1.75	1.82	1.90		
	Multi	1.32	1.35	1.37	1.39	1.41	1.43	1.46	1.48	1.52	1.56	1.60	1.65	1.73	1.80	1.85	1.91	1.97		
Sheetmetal	Single	1.27	1.30	1.32	1.34	1.35	1.37	1.40	1.41	1.43	1.47	1.51	1.57	1.61	1.68	1.74	1.81	1.86		
	Multi	1.35	1.38	1.40	1.42	1.44	1.46	1.51	1.53	1.55	1.59	1.63	1.72	1.76	1.83	1.90	1.94	2.08		
Structural Iron & Welding	Single	1.27	1.36	1.39	1.41	1.43	1.44	1.48	1.49	1.51	1.56	1.60	1.67	1.74	1.78	1.85	1.93	2.00		
	Multi	1.33	1.44	1.45	1.48	1.52	1.55	1.57	1.59	1.61	1.65	1.73	1.81	1.86	1.92	1.97	2.11	2.20		
Trackage	Single	1.33	1.36	1.38	1.41	1.42	1.45	1.47	1.51	1.54	1.57	1.62	1.66	1.76	1.82	1.88	1.94	1.99		
	Multi	1.36	1.40	1.41	1.43	1.45	1.48	1.50	1.52	1.53	1.58	1.64	1.69	1.75	1.82	1.89	1.96	2.02		
Wharfbuilding	Single	1.46	1.52	1.54	1.57	1.59	1.61	1.63	1.67	1.71	1.75	1.81	1.87	1.92	1.98	2.10	2.19	2.27		

## NOTES:

1. For crew sizes over 6, add 0.1 to the GDP.
2. For hazardous work, add 0.1 to the GDP.
3. For authorized return to shop for lunch:  
For travel zones 2-5, add 0.1 to the GDP.  
For travel zones 6-9, add 0.2 to the GDP.

## **CHAPTER 4.**

### **P/RM Standards and Computation Sheets**

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CONDENSER, AIR COOLED - 3 TON THROUGH 25 TON		10100		
NOTE: To obtain total time for an air conditioning system, it is necessary to assemble the standards sheets for the components of the system.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10101	Check operation of condenser prior to maintenance	.012		
10102	Turn power off and on	.006		
10103	Remove and install latch or finger-screw type access panel (per panel)	.027		
10104	Remove and install access panel, bolted or screwed on (per panel)	.037		
10105	Check electrical wiring and connections. Tighten loose connections	.092		
10106	Inspect motor for excessive noise and heat	.017		
10107	Lubricate shaft bearings and motor	.036		
10108	Inspect fan for bent blades or unbalance	.021		
10109	Check belt for wear, proper tension and alignment. Adjust tension and/or alignment if required. Change belt if required	.022		
10110	Visually inspect coil	.021		
10111	Clean coil, and fan using detergent sprayer and hose	.474		
10112	Inspect piping and valves for leaks. Tighten connections if necessary	.059		
10113	Check for corrosion	.021		
10114	Clean, prime, and paint area of corrosion (per sq ft )	.041		
10115	Check operation of damper motor	.017		
10116	Lubricate damper motor	.035		
10117	Check operation of condenser after maintenance	.042		
10118	Clean area around unit (per 100 sq ft )	.051		
10119	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# **P/R M STANDARDS SHEET**

EQUIPMENT DESCRIPTION		STANDARD NO.		
CONDENSER, AIR COOLED - 26 TON THROUGH 100 TON		10200		
NOTE: To obtain total time for an air conditioning system, it is necessary to assemble the standards sheets for the components of the system.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10201	Check operation of condenser prior to maintenance	.018		
10202	Turn power off and on	.006		
10203	Remove and install latch or finger-screw type access panel (per panel)	.027		
10204	Remove and install access panel, bolted or screwed on (per panel)	.037		
10205	Check electrical wiring and connections. Tighten loose connections	.092		
10206	Inspect motor for excessive noise and heat	.017		
10207	Lubricate shaft bearings and motor	.059		
10208	Inspect fan for bent blades and unbalance	.042		
10209	Check belt for wear, proper tension, and alignment. Adjust tension and/or alignment if required	.022		
10210	Visually inspect coil	.042		
10211	Clean coil and fan using detergent sprayer and hose	.986		
10212	Inspect piping and valves for leaks. Tighten connections if necessary	.059		
10213	Check for corrosion	.042		
10214	Clean, prime, and paint area of corrosion (per sq ft)	.041		
10215	Check operation of damper motor	.017		
10216	Lubricate damper motor	.036		
10217	Check operation of condenser after maintenance	.075		
10218	Clean area around unit (per 100 sq ft)	.051		
10219	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CONDENSING UNIT, WATER COOLED		10250		
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10251	Check with operating personnel for obvious discrepancies.	.027		
10252	Check operation and cycling of condenser.	.092		
10253	Read and record refrigerant and oil gage pressures.	.057		
10254	Check compressor oil level and add oil if needed.	.007		
10255	Check refrigerant charge in receiver and record.	.028		
10256	Visual check for oil, refrigerant and water leaks.	.059		
10257	Check compressor oil seal for damage or leaks.	.005		
10258	Check compressor operation for correct cycling or vibration.	.025		
10259	Check motor and bearings for noise, vibration and overheating.	.030		
10260	Lubricate fan and motor.	.036		
10261	Check fan blades for cracks or deterioration.	.011		
10262	Check inlet and outlet water temperatures.	.002		
10263	Clean condenser, compressor, coils, etc. and check for fin damage.	.364		
10264	Check refrigerant lines for damaged or missing insulation.	.011		
10265	Inspect electrical starter panels and controls for proper operation.	.092		
10266	Check for burned or loose contacts, insulation and loose connections.	.092		
10267	Check condensing unit operation after repairs.	.092		
10268	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FAN COIL UNIT		10875		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10876	Check coil unit while operating.	.092		
10877	Remove and install access panel.	.037		
10878	Remove old and install new filter.	.007		
10879	Visually inspect coil assembly	.021		
10880	Check coil wiring and controls for frayed wires or loose connections.	.092		
10881	Check motor for rough running, overheating and excessive noise.	.030		
10882	Lubricate motor.	.036		
10883	Lubricate fan shaft bearings.	.036		
10884	Visually inspect coil for damage.	.021		
10885	Inspect fan for bent blades or unbalance.	.011		
10886	Clean coil and drip pan with solvent.	.364		
10887	Clean blower assembly.	.342		
10888	Inspect V-belts and replace as required.	.022		
10889	Inspect system for leaks while operating.	.059		
10890	Check unit operation after repairs.	.092		
10891	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
HEAT PUMP UNIT, RESIDENTIAL		10900		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10901	Check with operating personnel for obvious discrepancies.	.027		
10902	Check heat pump while unit is operating.	.092		
10903	Turn main power on and off as required.	.012		
10904	Remove and install access panel for controls.	.037		
10905	Remove old and install new air filter.	.007		
10906	Check pump motor for excessive noise and vibration.	.030		
10907	Lubricate motor bearings.	.036		
10908	Lubricate motor with oil can.	.036		
10909	Inspect fan for bent blades and unbalance.	.011		
10910	Clean coil and blower with solvent.	.349		
10911	Check electrical wiring and connections. Tighten any loose connections.	.092		
10912	Check operation of thermostat.	.339		
10913	Check unit for proper operation after repairs.	.092		
10914	Fill out inspection report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
EVAPORATIVE COOLING - WINTER MAINTENANCE, 3' x 3' x 4'		10925		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10926	Remove and reinstall evaporative pad louver-panel.	.073		
10927	Remove and reinstall evaporative pad. (Includes cut pad medium with knife in frame)	.271		
10928	Clean lime from evaporative louver panels and aside (10 soft per panel) x 3 = 30 (scrape and wire brush)	.064		
10929	Remove corrosive and paint 2 sides of panels. (aver. panel = 20 soft total for 2 sides)	.030		
10930	Clean sump of evaporative cooler. (scrape, wire brush, sweep, includes drain)	.030		
10931	Paint sump of evaporative cooler (brush and paint with asphalt varnish with brush) Area = 10 sq. ft.	.008		
10932	Clean interior surfaces and components for lime deposits. Occurrence for typical requirements for 10 sq. ft. sump.	.012		
10933	Brush paint interior surfaces and components this unit sump area = 10 sq. ft.	.010		
10934	Clean up debris around unit. (Pick up and sweep includes 200' trip between units)	.047		
10935	Turn on and off electrical power as required to service unit. (Includes 2 cycles per serviced unit)	.006		
10936	Turn on and off water as required to service unit. (Includes 2 cycles per serviced unit)	.025		
10937	Connect and disconnect hose for unit.	.010		
10938	Cover and uncover components.	.001		
10939	Check and adjust float.	.198		
10940	Clean/clear, adjust spider (6 outlets).	.030		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO. 10925		
EVAPORATIVE COOLING - WINTER MAINTENANCE, 3' x 3' x 4' (Continued)				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10941	Adjust flow rate to spider distribution system	.004		
10942	Check belt, adjust, change as required.	.073		
10943	Check and replace motor if required.	.017		
10944	Clean or replace circulating pump as required.	.008		
10945	Lubricate fan and bearings and motor.	.040		
10946	Drain sump and clean.	.022		
10947	Additional material handling. (Based on observed two 200' round trips per serviced unit)	.094		
10948	Check with personnel and adjust thermostat as required.	.013		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
EVAPORATIVE COOLER, 5' x 5' x 5' - WINTER MAINTENANCE		10950	
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur
10951	Remove and reinstall evaporative pad louver panel.	.212	
10952	Remove and reinstall evaporative pad. (includes cut pad-medium with knife in frame)	.722	
10953	Clean lime from evaporative louver panels and aside (2' x 4' = 8 sq. ft. x 8 panels= 64 sq. ft. scrape and wire brush)	.137	
10954	Remove corrosion and paint 2 sides of panels.	.080	
10955	Clean sump of evaporative cooler (scrape, wire brush, sweep, includes drain)	.062	
10956	Paint sump of evaporative cooler (brush paint with asphalt varnish)	.029	
10957	Clean interior surfaces and components for lime deposits.	.030	
10958	Paint interior surfaces and components. (this units sump = 36 sq. ft.)	.035	
10959	Clean up debris around unit. (Pick up and sweep includes a 200' trip between units)	.047	
10960	Turn on and off electrical power as required to service unit. (Includes 2 cycles per serviced unit)	.006	
10961	Turn on and off water as required to service unit. (Includes 2 cycles per serviced unit)	.025	
10962	Connect and disconnect hose for unit.	.010	
10963	Cover and uncover components.	.001	
10964	Check and adjust float.	.198	
10965	Clean/clear, adjust spider (48 outlets)	.048	
10966	Adjust flow rate to spider	.004	
3 TOTAL EPS CRAFT HOURS			

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO. 10950		
EVAPORATIVE COOLER, 5' x 5' x 5' - WINTER MAINTENANCE (Continued)				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10967	Check belt, adjust, change as required.	.073		
10968	Check and replace motor if required.	.017		
10969	Clean or replace circulating pump as required.	.008		
10970	Lubricate fan and bearings and motor.	.040		
10971	Drain sump and clean.	.022		
10972	Additional material handling. (Based on two 200' round trips per serviced unit)	.094		
10973	Check with personnel fill out report, or change thermostat as necessary.	.013		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
EVAPORATIVE COOLER, WINTER MAINTENANCE PRM 4' ROTATING DRUM		10975		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10976	Remove and reinstall or open and close 2 access doors on unit.	.053		
10977	Clean sump (includes drain, scrape/wire brush, sweep, rinse sluge and drain sump. Hrs. per drum).	.177		
10978	Clean interior surfaces and components for loose paint/lime deposits. (Based on average field observation of 5 sq. ft. cleaned per drum)	.107		
10979	Clean up debris around work area. (includes pick up and sweep, walk 200' between units)	.047		
10980	Turn on and off electrical power (this normally consist of 2 times per unit serviced).	.006		
10981	Turn on and off water. Hrs allowed = occurs 2 times per unit serviced)	.006		
10982	Connect and disconnect garden hose, uncoil and coil, turn on and off spigot, includes all walking.	.065		
10983	Cover and uncover, interior components to prevent damage during rinsing.	.001		
10984	Check and adjust float.	.214		
10985	Make electrical checks and adjustments; controls, dump valve, relays, switches.	.150		
10986	Replace fan bearing as required. Averaged to 1 in 20 units.	.099		
10987	Replace gear motor as required. Averaged to 1 in 25 units.	.027		
10988	Replace motor (check motor for excessive noise and over heating) check 100% and replace motor 1 in 25 units.	.057		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
		10975		
EVAPORATIVE COOLER, WINTER MAINTENANCE PRM 4' ROTATING DRUM				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10989	Lubricate fan motor and bearings.	.040		
10990	Drain sump.	.017		
10991	Additional material handling (trip to and from truck and between units; at each location as roof top).	.094		
10992	Check with operating personnel for any known deficiencies, where a short verbal reply is expected. (includes such things as "where thermostat and water shut off")	.005		
10993	Paint interior surfaces and components of evaporative cooler (using brush) average of 5 sq. ft. per drum sump.	.013		
10994	Remove and install aluminum filters (6 filters per 4' drum)	.061		
10995	Wash removable, aluminum filters (6 filters per 4' drum)	.200		
3 TOTAL EPS CRAFT HOURS				



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CONDENSER, EVAPORATIVE/WATER COOLING TOWER - 3 TON THROUGH 25 TON		10300		
NOTE: To obtain total time for an air conditioning system, it is necessary to assemble the standards sheets for the components of the system.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10301	Check operation of unit prior to maintenance	.012		
10302	Turn power off and on	.006		
10303	Remove and install latch or finger-screw type access panel (per panel)	.027		
10304	Remove and install access panel, bolted or screwed on (per panel)	.037		
10305	Remove and install slat on wood cooling tower (per slat)	.017		
10306	Check electrical wiring and connections. Tighten loose connections	.092		
10307	Inspect motor for excessive noise and overheating	.017		
10308	Lubricate shaft bearings and motor	.036		
10309	Inspect fan for bent blades and unbalance	.042		
10310	Check belt for wear, proper tension, and alignment. Adjust tension and/or alignment if required. Change belt if required	.022		
10311	Clean and lubricate water pump	.096		
10312	Remove, clean, and install spray nozzle (per nozzle)	.047		
10313	Inspect prime tube coil	.021		
10314	Clean with scale removing compound	1.004		
10315	Clean inside of water tower using water hose. Scrape, brush, and wipe as required	.460		
10316	Drain water	.294		
10317	Fill with water	.162		
10318	Remove, clean and install float	.081		
10319	Check float; adjust if necessary	.030		
10320	Inspect piping and valves for leaks. Tighten connections if necessary	.059		
				con.

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

CONDENSER, EVAPORATIVE/WATER COOLING TOWER -  
3 TON THROUGH 25 TON

STANDARD NO.

10300 con.

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
10321	Check operation of damper motor	.017		
10322	Lubricate damper motor	.036		
10323	Check unit for corrosion	.021		
10324	Clean, prime, and paint area of corrosion (per sq ft)	.041		
10325	Check operation of unit after maintenance	.042		
10326	Clean area around unit (per 100 sq ft)	.051		
10327	Fill out maintenance record/report	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CONDENSER, EVAPORATIVE/WATER COOLING TOWER - 26 TON THROUGH 100 TON		10400		
NOTE: To obtain total time for an air conditioning system, it is necessary to assemble the standards sheets for the components of the system.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10401	Check operation of unit prior to maintenance	.018		
10402	Turn power off and on	.006		
10403	Remove and install latch or finger-screw type access panel (per panel)	.027		
10404	Remove and install access panel, bolted or screwed on (per panel)	.037		
10405	Remove and install slat on wood cooling tower (per slat)	.017		
10406	Check electrical wiring and connections. Tighten any loose connections	.092		
10407	Inspect motor for excessive noise and overheating	.017		
10408	Lubricate shaft bearings and motor	.059		
10409	Inspect fan for bent blades and unbalance	.042		
10410	Check belt for wear, proper tension, and alignment if required. Adjust tension and/or alignment if required. Change belt if required	.022		
10411	Clean and lubricate water pump	.096		
10412	Remove, clean, and install spray nozzle (per nozzle)	.047		
10413	Inspect prime tube coil	.042		
10414	Clean with scale removing compound	2.867		
10415	Clean inside of water tower using water hose. Scrape, brush, and wipe as required	.865		
10416	Drain water	.882		
10417	Fill with water	.486		
10418	Remove, clean and install float	.081		
10419	Check float; adjust if necessary	.030		
10420	Inspect piping and valves for leaks. Tighten connections if required	.059		
				con.

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CONDENSER, EVAPORATIVE/WATER COOLING TOWER - 26 TON THROUGH 100 TON		10400 con.		
NOTE: To obtain total time for an air conditioning system, it is necessary to assemble the standards sheets for the components of the system.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10421	Check operation of damper motor	.017		
10422	Lubricate damper motor	.036		
10423	Visually inspect for corrosion	.042		
10424	Clean, prime, and paint area of corrosion (per sq ft)	.041		
10425	Check operation of unit after maintenance	.075		
10426	Clean area around unit (per 100 sq ft)	.051		
10427	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DAMPER UNIT		10450		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10451	Check with operating personnel for obvious discrepancies.	.027		
10452	Observe operation of damper by actuating controls.	.092		
10453	Disconnect linkage at motor and reconnect after inspection.	.027		
10454	Spray lubricant (WD-40 or similar) on outside linkage.	.015		
10455	Open and close two covers with two screws and hinge each.	.040		
10456	Spray lubricant (WD-40 or similar) on pivot points while operating damper by hand.	.042		
10457	Inspect damper blades and axles for bends or warps.	.041		
10458	Inspect blade seals for gaps or deterioration.	.002		
10459	Inspect damper bearings for wear or damage.	.005		
10460	Clean damper blades.	.062		
10461	Inspect damper for loose hardware.	.004		
10462	Check damper motor for proper operation.	.017		
10463	Check outside of unit for corrosion and repair as required.	.041		
10464	Observe damper operation after PM and adjust as required.	.092		
10465	Fill out inspection report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

AIR HANDLER - 3 TON THROUGH 24 TON  
(1200 CFM THROUGH 9600 CFM)

STANDARD NO.

10500

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<input type="checkbox"/> Occur	<input type="checkbox"/> TOTAL
10501	Check unit for proper operation prior to maintenance.	.017		
10502	Turn power off and on.	.006		
10503	Remove and install access panel--without fasteners (per panel).	.027		
10504	Remove and install access panel--with fasteners (per panel).	.069		
10505	Remove and install cartridge type filter (per filter).	.007		
10506	Remove and install bag--type filter (per filter).	.009		
10507	Check electrical wiring and connections--tighten any loose connections.	.092		
10508	Sensory inspect centrifugal fan and motor.	.084		
10509	Lubricate centrifugal fan and motor bearings.	.024		
10510	Inspect fan for bent blades and unbalance.	.021		
10511	Check V-belt for wear, proper tension and alignment--adjust tension and alignment as needed.	.022		
10512	Remove and install V-belt.	.220		
10513	Visually inspect coil--heating or cooling.	.021		
10514	Clean coil--heating or cooling.	.273		
10515	Clean heating and cooling coils.	.545		
10516	Clean centrifugal fan.	.459		
10517	Inspect piping and valves for leaks. Tighten any loose connections.	.059		
10518	Clean air plenum.	.210		
<input type="checkbox"/> TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR HANDLER - 25 TON THROUGH 99 TON (10,000 CFM THROUGH 39,600 CFM)		10600		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10601	Check unit for proper operation prior to maintenance.	.026		
10602	Turn power off and on.	.006		
10603	Remove and install access panel--without fasteners (per panel).	.027		
10604	Remove and install access--with fasteners (per panel).	.102		
10605	Remove and install cartridge type filter (per filter).	.007		
10606	Remove and install bag-type filter (per filter).	.009		
10607	Check electrical wiring and connections--tighten any loose connections.	.139		
10608	Sensory inspect centrifugal fan and motor.	.084		
10609	Lubricate centrifugal fan and motor bearings.	.030		
10610	Inspect fan for bent blades and unbalance.	.042		
10611	Check V-belt for wear, proper tension and alignment--adjust tension and alignment as needed.	.022		
10612	Remove and install V-belt.	.330		
10613	Visually inspect coil--heating or cooling.	.032		
10614	Clean coil--heating or cooling.	1.226		
10615	Clean heating and cooling coils.	2.453		
10616	Clean centrifugal fan.	.919		
10617	Inspect piping and valves for leaks. Tighten any loose connections.	.088		
10618	Clean air plenum.	.294		
TOTAL EPS CRAFT HOURS				



## EQUIPMENT DESCRIPTION

STANDARD NO.	TEST METHOD	TEST RESULT	REMARKS
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
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89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100		

10600

SHEET 2 OF 5

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

AIR HANDLER - 100 TON THROUGH 250 TON  
(40,000 CFM THROUGH 100,000 CFM)

STANDARD NO.

10700

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10701	Check unit for proper operation prior to maintenance.	.035		
10702	Turn power off and on.	.006		
10703	Remove and install access panel--without fasteners (per panel).	.027		
10704	Remove and install access panel--with fasteners (per panel).	.151		
10705	Remove and install cartridge type filter (per filter).	.007		
10706	Remove and install bag-type filter (per filter).	.010		
10707	Check electrical wiring and connections--tighten any loose connections.	.185		
10708	Sensory inspect centrifugal fan and motor.	.084		
10709	Lubricate centrifugal fan and motor bearings.	.030		
10710	Inspect fan for bent blades and unbalance.	.042		
10711	Check V-belt for wear, proper tension and alignment--adjust tension and alignment as needed.	.022		
10712	Remove and install V-belt.	.440		
10713	Visually inspect coil--heating or cooling.	.042		
10714	Clean coil (heating or cooling).	3.543		
10715	Clean heating and cooling coils.	7.085		
10716	Clean centrifugal fan.	1.838		
10717	Inspect piping and valves for leaks. Tighten any loose connections.	.118		
10718	Clean air plenum.	.498		
1 TOTAL EPS CRAFT HOURS				

## EQUIPMENT DESCRIPTION:

**STANDARD NO.**

**10700**

**AIR HANDLER - 100 TON THROUGH 250 TON  
(40,000 CFM THROUGH 100,000 CFM)**

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1)</sup> Occur	<sup>2)</sup> TOTAL
10719	Inspect areas for corrosion. Clean, prime and paint any corroded areas (per unit).	.041		
10720	Check operation of damper motor.	.018		
10721	Lubricate damper motor.	.036		
10722	Check and adjust automatic on/off timer.	.014		
10723	Clean area around unit (per 100 sq. ft.).	.051		
10724	Check unit for proper operation after maintenance.	.087		
10725	Fill out maintenance record/report.	.017		
<sup>3)</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR CONDITIONER, PACKAGE UNIT		10750		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10751	Remove and install latch or finger-screw type access panel.	.027		
10752	Remove and install access panel, bolted or screwed on.	.037		
10753	Turn power off and on.	.006		
10754	Check compressor operation. Observe refrigerant in sight glass while compressor is operating.	.025		
10755	Check compressor oil level.	.004		
10756	Remove and install cartridge type filter (per filter).	.007		
10757	Visually inspect coil.	.021		
10758	Clean coil, drip pan and blower.	.296		
10759	Check electrical wiring and connections. Tighten loose connections.	.092		
10760	Inspect motor for excessive heat and noise.	.017		
10761	Lubricate shaft bearings and motor.	.036		
10762	Check piping for refrigerant, water, and oil leaks. Tighten loose connections if required.	.059		
10763	Check belt for wear, proper tension, and alignment. Adjust tension and/or alignment if required. Change belt if required.	.022		
10764	Inspect unit for corrosion.	.021		
10765	Clean, prime and paint area of corrosion (per sq. ft.).	.041		
10766	Check and adjust automatic on/off timers.	.014		
10767	Recharge compressor (per 50 lb cylinder).	1.344		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR CONDITIONER, PACKAGE UNIT (Continued)		10750		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
10768	Clean area around unit by sweeping and picking up debris (per 100 sq. ft.).	.051		
10769	Fill out maintenance record/report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
COMPRESSOR, A/C-3 TON THROUGH 100 TON		10800		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10801	Check unit for proper operation prior to maintenance--observe refrigerant in sight glass while unit is operating.	.025		
10802	Turn power off and on.	.006		
10803	Remove and install access panel--without fasteners.	.027		
10804	Remove and install access panel--with fasteners.	.102		
10805	Sensory inspect fan.	.023		
10806	Sensory inspect blower.	.043		
10807	Check piping and valves for refrigerant leaks tighten any loose connections.	.059		
10808	Check V-belt for wear, proper tension and alignment--adjust as needed.	.022		
10809	Remove and install V-belt.	.220		
10810	Lubricate motor and shaft bearings.	.036		
10811	Lubricate air compressor.	.023		
10812	Lubricate blower bearing fitting.	.036		
10813	Check crankcase oil temperature and pressure gauges-record readings.	.029		
10814	Add oil to crankcase.	.003		
10815	Fill oil cups.	.016		
10816	Check for proper refrigerant charge (permanently mounted gauges)--record readings.	.209		
10817	Check for proper refrigerant charge (includes connecting and disconnecting gauge manifold hoses)--record readings.	.412		
10818	Charge compressor--per 50 lb. cylinder.	1.344		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
COMPRESSOR, A/C-3 TON THROUGH 100 TON (Continued)		10800		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
10819	Pump compressor down into receiver.	.623		
10820	Check unloaders for proper operation--adjust as required.	.268		
10821	Check motor alignment--adjust coupling as needed.	.014		
10822	Remove and install disposable filter.	.007		
10823	Remove and install dryer.	1.670		
10824	Check automatic control safety devices.	.072		
10825	Check electrical controls for loose connections and frayed wiring--tighten loose connections and cover any bare wiring.	.092		
10826	Bleed moisture from air tank.	.056		
10827	Drain oil from crankcase.	.082		
10828	Fill crankcase with oil.	.049		
10829	Wipe motor and compressor.	.023		
10830	Check unit for corrosion. Clean, prime and paint area of corrosion--per sq. ft.	.020		
10831	Clean up around compressor--per 100 sq. ft.	.051		
10832	Check compressor operation after PM; check sight glass while compressor is in operation.	.025		
10833	Fill out maintenance record/report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

AIR CONDITIONER, WINDOW UNIT

STANDARD NO.

10850

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
10851	Check with operating personnel for obvious defects.	.027		
10852	Check air conditioner operation while unit is running.	.092		
10853	Check for water or coolant leaks while air conditioner is operating.	.059		
10854	Check air conditioner cabinet for corrosion. Clean, prime and paint as required.	.041		
10855	Remove and install access panel to air conditioner.	.037		
10856	Check electrical controls and wiring for loose connections or frayed wires.	.092		
10857	Inspect motor while running for excess noise and vibration.	.030		
10858	Grease motor bearings.	.036		
10859	Lubricate air conditioner motor with oil can.	.036		
10860	Inspect fan for alignment and bent blades.	.021		
10861	Inspect air conditioner thermostat for proper operation.	.339		
10862	Remove old and install new air conditioner filter.	.007		
10863	Clean coil and blower with solvent.	.349		
10864	Clean out air conditioner drain line.	.349		
10865	Check for proper operation after maintenance.	.092		
10866	Fill out inspection report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
REFRIGERATOR, DOMESTIC		11100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
11101	Gain access to refrigerator.	.019		
11102	Check with operating personnel for any known deficiencies.	.027		
11103	Check door gasket for proper sealing.	.007		
11104	Adjust door latch as required to improve sealing.	.018		
11105	Visually check hinges and lubricate as needed.	.010		
11106	Check temperature inside refrigerator and calibrate thermostat as necessary.	.339		
11107	Remove and install access panel.	.034		
11108	Blow down condenser with C0-2 or compressed air.	.024		
11109	Lubricate motor bearings.	.006		
11110	Lubricate mechanical parts except for motor bearings.	.018		
11111	Visually check piping and valves for refrigerant leaks.	.059		
11112	Hand clean compressor and condenser with cloth.	.023		
11113	Visually check and install proper identification tag on refrigerator if missing.	.014		
11114	Tighten screw-type electrical connections with hand tool.	.003		
11115	Tighten or replace loose or missing bolts and screws.	.004		
11116	Check motor and motor bearings for overheating by hand touch.	.030		
11117	Report deficiencies for corrective action.	.013		
11118	Fill out maintenance record/report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
REFRIGERATOR/DISPLAY CASE/FREEZER, REACH-IN BOX (UPRIGHT AND CHEST TYPE)		11125		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
11126	Check with operating personnel for any known deficiencies.	.027		
11127	Check door gaskets for proper sealing.	.007		
11128	Adjust door latch, as required, to improve sealing.	.018		
11129	Check door hinges; lubricate as needed.	.010		
11130	Check temperature inside box and calibrate thermostat as necessary.	.339		
11131	Remove and install access panel.	.034		
11132	Check safety devices for proper operation.	.036		
11133	Check operation of defrost timer.	.072		
11134	Check compressor and condenser for proper operation.	.025		
11135	Visually check for refrigerant, water and oil leaks.	.118		
11136	Check motor and motor bearings for overheating by hand touch.	.030		
11137	Lubricate motor bearings.	.006		
11138	Lubricate moving parts and pivot points other than motor bearings.	.018		
11139	Blow down condenser coils and fan with CO-2 or compressed air.	.028		
11140	Hand clean compressor and condenser with cloth.	.023		
11141	Visually check and install proper identification tag on reach-in box if missing.	.014		
11142	Clean, prime and paint any corroded areas.	.041		
11143	Inspect evaporator for dirt and/or ice buildup.	.019		
11144	Clean and lubricate evaporator fan and motor.	.031		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
REFRIGERATOR/DISPLAY CASE/FREEZER, REACH-IN BOX (UPRIGHT AND CHEST TYPE) (Continued)		11125		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
11145	Inspect evaporator drain for proper operation.	.038		
11146	Check refrigerant piping for damaged or missing insulation.	.012		
11147	Inspect electrical starter panel and controls-- check for burned or loose contacts, burned insulation, and loose connections.	.140		
11148	Report deficiencies for corrective action.	.013		
11149	Fill out maintenance record/report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
REFRIGERATOR/CHILL BOX/FREEZER, WALK-IN BOX		11150		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
11151	Gain access to walk-in box.	.019		
11152	Check with operating personnel for any deficiencies.	.027		
11153	Check door gaskets for proper sealing.	.007		
11154	Adjust door latch as required to improve sealing.	.018		
11155	Check door locks and hinges; lubricate as needed.	.017		
11156	Check safety devices for proper operation.	.044		
11157	Remove and install access panel.	.034		
11158	Check belts and pulleys for wear and alignment; replace belts and adjust alignment as needed.	.022		
11159	Inspect for bent fan blade and blade deterioration.	.021		
11160	Read/record refrigerant and oil pressure.	.007		
11161	Check sight glasses for proper refrigerant and oil levels.	.013		
11162	Visually inspect for refrigerant, water and oil leaks.	.118		
11163	Check refrigerant piping for damaged or missing insulation.	.012		
11164	Check compressor and condenser for proper operation.	.031		
11165	Change oil in open type compressor.	.178		
11166	Lubricate motor bearings.	.006		
11167	Lubricate moving parts and pivot points other than motor bearings.	.018		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

REFRIGERATOR/CHILL BOX/FREEZER, WALK-IN BOX  
(Continued)

STANDARD NO.

11150

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
11168	Inspect evaporator coils for icing and proper clearance.	.019		
11169	Clean condenser and evaporator coils with detergent sprayer.	.364		
11170	Check flexible coupling on open type compressor.	.011		
11171	Visually check and install proper identification tag on walk-in box if missing.	.014		
11172	Clean, prime and paint any corroded areas.	.041		
11173	Report deficiencies for corrective action.	.013		
11174	Fill out maintenance record/report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

11175

REFRIGERATOR-FREEZER COMBINATION - TWO (2) DOOR

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
11176	Gain access to refrigerator-freezer combination.	.019		
11177	Check with operating personnel for any known deficiencies.	.027		
11178	Check gaskets of two doors for proper seal.	.014		
11179	Adjust latches of two doors as required to improve sealing.	.036		
11180	Visually check hinges of two doors and lubricate as needed.	.033		
11181	Check temperature inside refrigerator and freezer and calibrate thermostats as necessary.	.677		
11182	Remove and install access panel.	.034		
11183	Blow down condenser with CO-2 or compressed air.	.024		
11184	Visually check piping and valves for refrigerant leaks.	.059		
11185	Check refrigerant piping for damaged or missing insulation.	.012		
11186	Hand clean compressor and condenser with cloth.	.023		
11187	Check compressor and condenser for proper operation.	.031		
11188	Visually check and install proper identification tag on refrigerator-freezer combination if missing.	.014		
11189	Tighten screw-type electrical connections with hand tools.	.003		
11190	Tighten or replace loose or missing bolts and screws.	.004		
11191	Check motor and motor bearing for overheating by hand touch.	.030		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
REFRIGERATOR-FREEZER COMBINATION - TWO (2) DOOR (Continued)		11175		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
11192	Lubricate motor bearings.	.006		
11193	Lubricate moving parts and pivot points other than motor bearings.	.018		
11194	Clean, prime and paint any corroded areas.	.041		
11195	Report deficiencies for corrective action.	.013		
11196	Fill out maintenance record/report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
ICE MACHINE, FLAKE/CUBE		11200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
11201	Gain access to ice machine.	.019		
11202	Check with operating personnel for any known deficiencies.	.027		
11203	Check operation of ice machine before maintenance.	.021		
11204	Remove and install access panel.	.034		
11205	Check automatic controls and safety devices for proper operation.	.072		
11206	Check operating pressure--liquid refuel or oil (semi-sealed units).	.412		
11207	Check ice cutter/shaver for proper operation.	.046		
11208	Turn power off and on.	.006		
11209	Check belt tension and adjust as required.	.022		
11210	Replace V-belt.	.220		
11211	Check motor and motor bearings for overheating by hand touch.	.030		
11212	Lubricate motor bearings.	.006		
11213	Lubricate moving parts and pivot points other than motor bearings.	.018		
11214	Visually check for refrigerant, oil and water leak.	.017		
11215	Check controls and valves for proper operation.	.092		
11216	Turn water off and on.	.005		
11217	Visually inspect in-line water filter--remove and install as required.	.007		
11218	Descale, clean and flush water system with acid solution.	.156		
TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
ICE MACHINE, FLAKE/CUBE (Continued)		11200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
11219	Check and clear ice machine draining system (drain vent and trap).	.152		
11220	Chemical clean and rinse air cooled condenser.	.196		
11221	Clean motor and compressor units--wipe, brush and air blast.	.114		
11222	Check for rust and corrosion and treat (per 2 sq. ft.).	.041		
11223	Visually check and install proper identification tag on ice machine if missing.	.014		
11224	Tighten screw-type electrical connections with hand tools.	.003		
11225	Tighten or replace loose or missing bolts and screws.	.004		
11226	Inspect door(s) hinges, handles and gaskets--lubricate as required.	.041		
11227	Clean up equipment and area (per 100 sq. ft.).	.051		
11228	Check and level unit as required.	.127		
11229	Check operation of unit after PM.	.038		
11230	Report deficiencies for corrective action.	.003		
11231	Fill out maintenance record/report.	.003		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

CONTROLLER, PNEUMATIC (HCV)

STANDARD NO.

12100

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
12101	Gain access to machine room with shop key.	.011		
12102	Check with operating personnel for any known discrepancies.	.027		
12103	Stabilize unit and test with outside air sensor thermometer.	.073		
12104	Test hot water temperature at drain valve.	.054		
12105	Calibrate controller with test gages.	.290		
12106	Stabilize system after test.	.200		
12107	Clean up area and put away tools and test gages.	.060		
12108	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
VALVE OPERATOR, PNEUMATIC (HCV)		12125		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
12126	Check with operating personnel for any known discrepancies.	.027		
12127	Test operator with test gage and squeeze bulb.	.048		
12128	Tighten all connections to operator.	.019		
12129	Test operator for leaks with soap solution.	.052		
12130	Inspect diaphragm for damage or leaks.	.045		
12131	Replace diaphragm as needed.	.208		
12132	Replace pneumatic tubing to operator as needed.	.013		
12133	Soap solution test for leaks after maintenance.	.028		
12134	Clean up area after maintenance.	.026		
12135	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
THERMOSTAT, PNEUMATIC (HCV)		12150		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
12151	Gain access to room with shop key.	.011		
12152	Check with operating personnel for any known discrepancies.	.027		
12153	Tighten all pneumatic line connections to thermostat.	.019		
12154	Check air pressure with needle gage.	.045		
12155	Operational check of thermostat.	.047		
12156	Calibrate thermostat.	.162		
12157	Soap solution test for leaks.	.036		
12158	Replace pneumatic tubing.	.014		
12159	Replace thermostat gasket.	.272		
12160	Clean up area after maintenance.	.026		
12161	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
THERMOSTAT, ELECTRONIC (HCV)		12175		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
12176	Gain access to thermostat with shop key.	.011		
12177	Check with operating personnel for any obvious discrepancies.	.027		
12178	Operational check of thermostat.	.047		
12179	Remove and later install thermostat cover.	.065		
12180	Clean thermostat cover and mounting with brush.	.001		
12181	Clean thermostat contacts.	.089		
12182	Tighten all electrical connections.	.092		
12183	Check thermostat with volt/OHM meter.	.024		
12184	Adjust and regulate thermostat.	.778		
12185	Clean up area after maintenance.	.026		
12186	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
PNEUMATIC AIR DRYER		12200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
12201	Gain access to dryer with shop key.	.011		
12202	Check with operating personnel for any known discrepancies.	.027		
12203	Get use and aside extension ladder.	.135		
12204	Turn power to dryer on and off.	.006		
12205	Remove and later install access cover to dryer.	.045		
12206	Tighten electrical connections and check for frayed wiring.	.092		
12207	Tighten all pneumatic connections.	.019		
12208	Bleed air from dryer before maintenance.	.010		
12209	Clean dryer controls with brush.	.002		
12210	Spray clean dryer interior with detergent.	.342		
12211	Check pressure with test gage.	.014		
12212	Test unit for leaks with soap solution.	.036		
12213	Replace pneumatic tubing as needed.	.014		
12214	Operational check of dryer.	.024		
12215	Clean up area after maintenance.	.051		
12216	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIRFIELD LIGHTING, SEMI-FLUSH FIXTURE		15100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
15101	Check with operating personnel for location of malfunctioning fixtures	.066		
15102	Obtain clearance from control tower each time work is to begin and inform tower each time work stops	.031		
15103	Obtain clearance from control tower prior to crossing runway and inform tower when clear of runway	.015		
15104	Locate malfunctioning fixture and travel to site in service vehicle	.016		
15105	Inspect fixture exterior and surrounding area	.015		
15106	Relamp FAA E-2491 fixture using hand tools	.188		
15107	Relamp FAA E-2491 fixture using impact wrench	.137		
15108	Relamp MIL-26202 fixture using hand tools	.199		
15109	Relamp MIL-26202 fixture using impact wrench	.148		
15110	Relamp FAA L-850A fixture using hand tools	.163		
15111	Relamp FAA L-850A fixture using impact wrench	.137		
15112	Relamp FAA L-850B or L-852Q fixture using hand tools	.266		
15113	Relamp FAA L-850B or L-852Q fixture using impact wrench	.215		
15114	Relamp FAA L-850C or L-850D fixture using hand tools	.235		
15115	Relamp FAA L-850C or L-850D fixture using impact wrench	.184		
15116	Relamp FAA L-852 types I or II (Navy), L-852 types I thru IV or end light E-2491 fixture using hand tools	.141		
15117	Relamp FAA L-852 types I or II (Navy), L-852 types I thru IV or end light E-2491 fixture using impact wrench	.115		
3 TOTAL EPS CRAFT HOURS				con.

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIRFIELD LIGHTING, SEMI-FLUSH FIXTURE		15100 con.		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
15118	Inspect fixture interior, visible wiring and transformer and fixture mounting base	.025		
15119	Remove snow from around fixture	.008		
15120	Clean-up fixture and area surrounding fixture	.006		
15121	Fill out maintenance record/report	.050		
3 TOTAL EPS CRAFT HOURS				



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIRFIELD LIGHTING, ELEVATED FIXTURE		15125		
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
15126	Check with operating personnel for any reported discrepancies	.066		
15127	Obtain clearance from air field control tower each time work is to begin and inform tower each time work stops	.031		
15128	Obtain clearance from control tower prior to crossing runway and inform tower when clear of runway	.015		
15129	Request tower to turn "on" and to turn "off" lights	.031		
15130	Turn lights "on" and "off" at local station as required	.054		
15131	Drive along path of fixtures in service vehicle and inspect for burnouts and damaged fixtures	.006		
15132	Relamp fixture and clean up surrounding area	.031		
15133	Remove snow from around fixture	.012		
15134	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIRFIELD LIGHTING, SEQUENCED FLASHING LIGHTS		15150		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
15151	Check with operating personnel for any reported discrepancies	.066		
15152	Obtain clearance from airfield control tower each time work is to begin and notify tower each time work stops	.031		
15153	Obtain clearance from airfield control tower prior to crossing runway and inform tower when clear of runway	.015		
15154	Request tower to turn "on" and to turn "off" strobe lights	.031		
15155	Drive along service road in service vehicle and inspect for inoperative or skipping lamps and damaged fixtures	.004		
15156	Remove and install strobe lamp assembly	.400		
15157	Repair strobe lamp assembly in shop	.325		
15158	Inspect and lubricate mechanical drive components	.050		
15159	Examine and burnish control contact points	.844		
15160	Check control transformed oil level, insulators, case condition, ground connections, etc.	.097		
15161	Clean up area around fixture	.002		
15162	Remove snow from around fixture	.007		
15163	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIRFIELD LIGHTING, OPTICAL LANDING SYSTEM		15175		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
15176	Check with operating personnel for any reported discrepancies.	.027		
15177	Obtain clearance from airfield control tower each time work is to begin and inform tower each time work stops.	.031		
15178	Obtain clearance from control tower prior to crossing runway and inform tower when clear of runway.	.015		
15179	Perform operational check of "optical landing system" generator.	.268		
15180	Check "cut", "wave off" and "datum" lights for proper operation.	.010		
15181	Clean "cut", "wave off" and "datum" lamp faces and filter lens (no lock wire on lens).	.216		
15182	Clean mirror on mirror optical landing system.	.023		
15183	Clean fresnel lens on "fresnel lens" optical landing system.	.013		
15184	Check "source" lights for proper operation.	.006		
15185	Clean "source" light lamp faces and filter lens on "mirror" optical landing system.	.078		
15186	Check and adjust setting of glide slope angle and horizontal orientation.	.044		
15187	Clean, inspect and lubricate components in control and power distribution box.	.041		
15188	Clean and inspect wave-off intensity control and source light failure indicator box.	.032		
15189	Test temperature of "fresnel lens" cell segments (5-segments).	.052		
15190	Clean, inspect and lubricate trailer assembly and datum arms.	.180		
15191	Refinish chipped, cracked or peeled paint on trailer assembly.	.041		
<sup>3</sup> TOTAL EPS CRAFT HOURS				



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIRFIELD LIGHTING, RUNWAY DISTANCE MARKER		15200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
15201	Obtain clearance from control tower each time work is to begin and inform tower each time work stops	.031		
15202	Obtain clearance from tower prior to crossing runway and inform tower when clear of runway	.015		
15203	Request tower to turn "on" and to turn "off" runway distance marker lamps	.031		
15204	Travel between runway distance markers in service vehicle	.013		
15205	Remove and install distance marker access panel	.040		
15206	Inspect interior of runway distance marker for malfunctioning lamps	.014		
15207	Relamp runway distance marker during inspection	.010		
15208	Clean acrylic surfaces of front and back panels of runway distance marker	.014		
15209	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIRFIELD LIGHTING, ARRESTING GEAR MARKER		15225		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
15226	Obtain clearance from control tower each time work is to begin and inform tower each time work stops	.031		
15227	Obtain clearance from tower prior to crossing runway and inform tower when clear of runway	.015		
15228	Travel between airfield arresting gear markers in service vehicle	.025		
15229	Turn arrest gear marker lamps "on" and "off" by deactivating and activating photo cell control	.031		
15230	Remove and install arresting gear marker access panel	.060		
15231	Inspect interior of arresting gear marker for malfunctioning lamps	.008		
15232	Relamp arresting gear marker fixture (AV. 1-lamp per marker)	.016		
15233	Clean acrylic surfaces of front and back panels of arresting gear marker	.014		
15234	Fill out maintenance record/report	.017		
TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIRFIELD LIGHTING, WAVE-OFF FLARES		15250		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
15251	Check with airfield firehouse for noted electrical discrepancies passed down from previous shift	.121		
15252	Notify tower of preventive maintenance duty	.015		
15253	Perform operational check of systems, local and remote operation from tower	.008		
15254	Disassemble/assemble, unload/load, clean, lubricate and check for proper operation of flare gun	.025		
15255	Test for proper operation of triggering mechanism, repair/replace as needed	.012		
15256	Inspect, repair and/or replace connecting cables and plugs as needed	.024		
15257	Check for frayed or broken wires and for signs of overheating	.092		
15258	Check condition of rain-tight enclosures	.011		
15259	Clean interior of box and remove any foreign material	.030		
15260	Clean up area around flare gun box	.003		
15261	Remove snow from around flare gun box	.012		
15262	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
ARRESTING GEAR (EXCLUDING RETRIEVE ENGINE)		15275		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
15276	Obtain clearance from airfield control tower to work on arresting gear and cross runway as needed.	.046		
15277	Inspect cable and reposition spacers (doughnuts).	.704		
15278	Inspect and lubricate runway edge sheaves.	.152		
15279	Inspect arresting gear compressor.	.032		
15280	Inspect electrical wiring and connections.	.092		
15281	Bleed arresting gear control air line.	.010		
15282	Bleed both sides of arresting gear brake system.	.066		
15283	Inspect, lube and adjust arresting gear electric motor.	.023		
15284	Inspect arresting gear sump pump.	.059		
15285	Check arresting gear clutch.	.043		
15286	Check arresting gear crossdeck pendant.	.046		
15287	Inspect trailer and datum arms.	.892		
15288	Clean up arresting gear area.	.103		
15289	Fill out inspection report.	.017		
3 TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

15300

ARRESTING GEAR RETRIEVE ENGINE

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
15301	Obtain clearance from airfield control tower to work on arresting gear and cross runway as needed.	.046		
15302	Check engine oil and add as required.	.007		
15303	Check retrieve engine battery and clean terminals.	.052		
15304	Check retrieve engine belts and adjust as required; replace belt if needed.	.044		
15305	Check fuel tank and fill as needed.	.020		
15306	Replace air filter.	.007		
15307	Change oil in retrieve engine.	.141		
15308	Replace spark plugs in retrieve engine.	.116		
15309	Inspect retrieve engine wiring and connections.	.092		
15310	Test run retrieve engine and activate rewind.	.258		
15311	Check retrieve engine magneto spark.	.008		
15312	Check retrieve engine block for corrosion and repair, as needed.	.041		
15313	Clean retrieve engine of grease, dirt, etc.	.011		
15314	Clean around engine area.	.051		
15315	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
SECURITY/INTRUSION ALARM SYSTEM		20100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
	Standards are based on a crew size of two. One performs the PM checks at the protected area while the other is stationed at the central monitoring station to PM the central panel and monitor the alarm tests.			
	Some Installation activities' security policies may require an extra intrusion system technician to verify that the technician performing PM does not compromise the system integrity. In this case, adjust check point times on sheet for larger crew size.			
20101	Check in and out with area security officer, get escort and required keys	.400		
20102	Enter and exit secured area	.068		
20103	Inspect Bunker Entry Box (B.E.B.) (local system control and standby power source)	.257		
20104	Inspect Field Distribution Box (FDB) (electrical interconnections of alarm network)	.257		
20105	Inspect alarm control panel (local panel within secured area)	.172		
20106	Inspect and load (drain) test standby battery power source	.095		
20107	Check operation of balanced magnetic door switches	.013		
20108	Check operation of ultrasonic motion detection sensors	.024		
20109	Check operation of passive infra-red detection sensors	.024		
20110	Check operation of microwave detection sensors	.024		
20111	Check operation of duress switch (burglary in process)	.126		
20112	Check operation of capacitance alarm sensor (safes)	.051		
				con.

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
SECURITY/INTRUSION ALARM SYSTEM		20100 con.		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
20113	Check operation of tamper alarm switch (ultra-sonic devices, microwave devices, infra-red, etc.)	.104		
20114	Check tamper switch on magnetic door switch	.079		
20115	Travel between secured areas (e.g. munition bunkers)	.079		
20116	Clean up secured area (100 sq ft)	.051		
20117	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR COMPRESSOR, AIR COOLED ELECTRIC		25100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
25101	Check with compressor operating personnel for any known discrepancies.	.027		
25102	Gain access to machine room to inspect compressor.	.039		
25103	Open and close latch type lid or cover plate.	.002		
25104	Check compressor oil level and add oil as required.	.017		
25105	Remove, clean and install reusable oil filter.	.136		
25106	Check tension, condition and alignment of V-belt on small compressor and adjust as required.	.023		
25107	Replace V-belt on small compressor (1 belt).	.110		
25108	Check operation and adjustment of pressure switch.	.220		
25109	Drain moisture from air storage tank and check low pressure cut-in. Check discharge for indication of interior corrosion while draining.	.035		
25110	Clean air intake filter on compressor.	.136		
25111	Check operation of pressure relief valve.	.023		
25112	Disassemble, clean and inspect check valve.	.159		
25113	Clean cylinder cooling fins and air cooler on compressor with brush.	.018		
25114	Check bolts and tighten as required: foundation, cylinder head and belt guard bolts.	.119		
25115	Check electric motor for excessive heat or vibration.	.032		
25116	Lubricate compressor motor.	.036		
1 TOTAL EPS CRAFT HOURS				

P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR COMPRESSOR, AIR COOLED ELECTRIC (Continued)		25100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
25117	Check compressor power and control circuits and tighten electrical connections.	.129		
25118	Calibrate pressure gauge.	.147		
25119	Disassemble drive section of compressor.	1.051		
25120	Remove old and install new compressor vanes.	1.170		
25121	Assemble drive end of compressor.	.672		
25122	Perform operational check of air compressor. and adjust as required.	.170		
25123	Check fractional HP air compressor for dry sprinkler system; including checking belt, oil level, lubrication draining condensate.	.236		
25124	Clean up area around compressor.	.051		
25125	Fill out maintenance report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR COMPRESSOR, TANDOM WATER COOLED; GAS OR DIESEL		25175		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
25176	Check with compressor operating personnel for obvious discrepancies.	.027		
25177	Gain access to machine room or cage to inspect compressor.	.039		
25178	Check air receiver for moisture and drain as required.	.305		
25179	Check that cooling water flow is sufficient to keep outlet water temperature no more than warm.	.019		
25180	Check air pressure at set point.	.059		
25181	Calibrate pressure gauge.	.147		
25182	Check compressor oil level and add oil as needed.	.024		
25183	Check lubricator oil feed.	.024		
25184	Check compressor belts for tension, wear or deterioration.	.382		
25185	Check for unusual noise while compressor is operating.	.019		
25186	Change oil in crankcase.	.262		
25187	Inspect check valve.	.046		
25188	Inspect compressor valves for proper operation.	.318		
25189	Inspect and repair engine.	.800		
25190	Disassemble drive end of compressor.	1.066		
25191	Remove old and install new compressor vanes.	2.340		
25192	Assemble drive end of compressor.	1.066		
25193	Test run compressor after repairs.	.340		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR COMPRESSOR, TANDOM WATER COOLED; GAS OR DIESEL		25175		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
25194	Clean up around compressor after repairs.	.051		
25195	Fill out maintenance report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

**P/R M STANDARDS SHEET**

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR COMPRESSOR, SINGLE WATER COOLED, GAS OR DIESEL		25200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
25201	Check with compressor operating personnel for obvious discrepancies.	.027		
25202	Gain access to machine room or cage to inspect compressor.	.039		
25203	Check compressor belts for tension, wear and deterioration.	.079		
25204	Replace compressor belts as required.	.330		
25205	Check oil level in compressor and add as required.	.062		
25206	Clean reusable oil filter.	.136		
25207	Check operation of all safety valves.	.159		
25208	Check packing and tighten as needed.	.024		
25209	Check compressor piston rods for clearance, scoring and security.	.055		
25210	Check compressor crankcase for sludge and dirt.	.082		
25211	Check cylinder head bolts for tightness.	.069		
25212	Check compressor connecting rods and crossheads.	.347		
25213	Check compressor bearings for dirt and wear.	.003		
25214	Check operation of lubricators and oil cups.	.024		
25215	Check cylinders for wear, scoring, dirt and corrosion.	.006		
25216	Check piston rings for wear, dirt and tightness.	.007		
25217	Inspect compressor crankshaft bearings.	.347		
25218	Inspect compressor crosshead guides, wedges and pins for wear and proper operation.	.008		
3 TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR COMPRESSOR, SINGLE WATER COOLED, GAS OR DIESEL		25200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
25219	Check flywheel for security to shaft and flywheel bearings for wear and dirt.	.005		
25220	Inspect air intake filter and replace as required.	.169		
25221	Check operation of compressor relief valve.	.023		
25222	Inspect compressor power and control circuits and tighten connections as needed.	.129		
25223	Calibrate pressure gauge.	.147		
25224	Inspect gasoline or diesel engine and repair as required.	.800		
25225	Disassemble drive end of compressor.	1.052		
25226	Remove old and install new compressor vanes.	1.170		
25227	Assemble drive end of compressor.	.672		
25228	Perform operational check of compressor.	.170		
25229	Clean up area around compressor after repairs.	.051		
25230	Fill out maintenance report on compressor.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
AIR DISTRIBUTION SYSTEM		25250		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
25251	Check with local personnel for any obvious discrepancies.	.027		
25252	Inspect air lines for leaks and tighten loose connections. 10 LF	.118		
25253	Inspect air line for broken hangers or anchors. 10 LF	.405		
25254	Inspect air lines for corrosion and need of paint. 10 LF	.082		
25255	Clean out manholes and valve pits. per manhole	.127		
25256	Check valve operation and repack as required.	.150		
25257	Check flange bolts for loose or broken hardware. per valve	.260		
25258	Replace gaskets as needed on air lines. per valve	.499		
25259	Repair or replace missing or broken valve parts. per valve	.159		
25260	Lubricate valve stems as needed. per valve	.043		
25261	Inspect and clean air separators or receivers.	4.534		
25262	Hydrostatic pressure test of air separators or receivers.	3.381		
25263	Inspect, clean and repair traps.	.221		
25264	Inspect, clean and repair strainers.	.188		
25265	Inspect, clean and repack drain valves.	.289		
25266	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DOOR, OVERHEAD FIRE		30100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
30101	Fill out trip ticket (off base pass) per day	.025		
30102	Check with door operating personnel for any known deficiencies	.027		
30103	Drop test roll up fire door	.510		
30104	Test heat actuated device with heater	.081		
30105	Inspect, clean and lubricate roll up door gear assembly	.406		
30106	Check alignment of roll up door, door guides and lubricate	.677		
30107	Inspect, clean and lubricate motor gearbox assembly	.154		
30108	Check and adjust roll up door counter balance assembly	.359		
30109	Check electrical wiring and contacts for wear	.364		
30110	Check and adjust limit switches	.172		
30111	Inspect general condition of door interior and exterior for need of paint, signs, repairs and obstructions	.003		
30112	Grease door tracks with brush	.230		
30113	Replace missing/tighten loose nuts, bolts, etc.	.045		
30114	Clean up around door area after maintenance	.051		
30115	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DOOR, SLIDING HANGAR		30125		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
30126	Fill out trip ticket (off base pass) per day	.025		
30127	Check with door operating personnel for any known deficiencies	.027		
30128	Operate door	.048		
30129	Check alignment of hangar door, door guides and lubricate	.677		
30130	Remove debris from door track	.030		
30131	Inspect general condition of door interior and exterior for need of paint, signs, repairs and obstructions	.014		
30132	Replace missing/tighten loose nuts, bolts, etc.	.045		
30133	Check electrical wiring and contacts for wear	.364		
30134	Inspect and lubricate wheel drive chain	.024		
30135	Inspect bumpers, springs, and stop blocks for wear	.107		
30136	Check brake shoes for wear	.096		
30137	Adjust brakes	.058		
30138	Inspect drive wheels	.055		
30139	Lubricate wheel fittings, guides, stops and rollers with grease gun	.109		
30140	Oil levers, links and springs with oil squirt can	.051		
30141	Clean up around door area after maintenance	.051		
30142	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DOOR, OVERHEAD ROLLER CURTAIN, MANUAL, UP TO 16' HIGH X 15' WIDE		30150		
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
30151	Fill out trip ticket (off base pass) per day	.025		
30152	Check with door operating personnel for any known deficiencies	.027		
30153	Operate door	.104		
30154	Check alignment of roll up door, door guides and lubricate	.677		
30155	Inspect general condition of door interior and exterior for need of paint, signs, repairs and obstructions	.017		
30156	Replace missing/tighten loose nuts, bolts, etc.	.045		
30157	Inspect and lubricate chain	.048		
30158	Grease tracks with brush	.230		
30159	Clean up around door area after maintenance	.051		
30160	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DOOR, OVERHEAD ROLLER CURTAIN, MANUAL, FROM 16'1" TO 24' HIGH X 15'1" TO 25' WIDE		30175		
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
30176	Fill out trip ticket (off base pass) per day	.025		
30177	Check with door operating personnel for any known deficiencies	.027		
30178	Operate door	.104		
30179	Check alignment of door, door guides and lubricate	.677		
30180	Inspect general condition of door interior and exterior for need of paint, signs, repairs and obstructions	.041		
30181	Replace missing/tighten loose nuts, bolts, etc.	.045		
30182	Inspect and lubricate chain	.066		
30183	Grease door tracks with brush	.230		
30184	Clean up around door area after maintenance	.051		
30185	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DOOR, OVERHEAD ROLLER CURTAIN, MOTOR DRIVEN, UP TO 16' HIGH X 15' WIDE		30200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
30201	Fill out trip ticket (off base pass) per day	.025		
30202	Check with door operating personnel for any known deficiencies	.027		
30203	Operate door	.104		
30204	Check alignment of door, door guides and lubricate	.677		
30205	Inspect general condition of door interior and exterior for need of paint, signs, repairs and obstructions	.017		
30206	Replace missing/tighten loose nuts, bolts, etc.	.045		
30207	Check electrical wiring and contacts for wear	.364		
30208	Inspect and lubricate motor gearbox	.154		
30209	Adjust limit switch	.172		
30210	Inspect and lubricate chain	.048		
30211	Grease door tracks	.230		
30212	Clean up around door area after maintenance	.051		
30213	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DOOR, OVERHEAD ROLLER CURTAIN, MOTOR DRIVEN, FROM 16'1" TO 24' HIGH X 15'1" TO 25' WIDE		30225		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
30226	Fill out trip ticket (off base pass) per day	.025		
30227	Check with door operating personnel for any known deficiencies	.027		
30228	Operate door	.104		
30229	Check alignment of door, door guides and lubricate	.677		
30230	Inspect general condition of door interior and exterior for need of paint, signs, repairs and obstructions	.041		
30231	Replace missing/tighten loose nuts, bolts, etc.	.045		
30232	Check electrical wiring and contacts for wear	.364		
30233	Inspect and lubricate motor gearbox	.154		
30234	Adjust limit switch	.172		
30235	Inspect and lubricate chain	.066		
30236	Grease door tracks	.230		
30237	Clean up around door area after maintenance	.051		
30238	Fill out maintenance record/report	.017		
TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

MANHOLE, ELECTRICAL DISTRIBUTION

STANDARD NO.  
35025

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35026	Set up safety barrier around manhole. (2-men/job)	.234		
35027	Remove and install manhole cover. (2-men/manhole cover)	.117		
35028	Test manhole for accumulation of combustionable gases, using an atmospheric test instrument. (2-men/manhole)	.089		
35029	Test manhole for accumulation of toxic gases, using a colorimetric indicating gel tube. (2-men/manhole)	.097		
35030	Inject carbon dioxide into manhole to reduce possibility of explosion. (2-men/manhole)	.399		
35031	Ventilate manhole with portable gasoline driven blower. NOTE: Blower run-time is not included in this check point. (2-men/manhole)	.289		
35032	Ventilate manhole with portable electric driven blower. NOTE: Blower run-time is not included in this check point. (2-men/manhole)	.218		
35033	Pump water from manhole with portable gasoline driven pump. NOTE: Pump run-time is not included in this check point. (2-men/manhole)	.216		
35034	Pump water from manhole with portable electric driven pump. NOTE: Pump run-time is not included in this check point. (2-men/manhole)	.261		
35035	Pump water from manhole with permanently installed electric driven pump. NOTE: Pump run-time is not included in this check point. (2-men/manhole)	.148		
35036	Set up portable ladder in manhole. (2-men/manhole)	.161		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION:		STANDARD NO.		
MANHOLE, ELECTRICAL DISTRIBUTION		35025		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1) Occur	2) TOTAL
35037	Clean manhole, (Based on 1-bucket or less of debris being removed from manhole). (2-men/manhole)	.127		
35038	Check manhole cover for clogged vents, cracks and improper fit. Clear clogged vents, as necessary. (2-men/manhole)	.055		
35039	Check sump for obstruction, clogged drains and faulty, operation of pump. Remove obstructions and clear clogged drains, as necessary. (2-men/manhole)	.325		
35040	Inspect permanently installed ladders for corrosion and insecure anchorage. Prepare and paint corroded areas. Tighten or replace loose missing or damaged fasteners. (2-men/manhole)	.071		
35041	Inspect ceiling, walls and floors of manhole for cracks, leakage and any other apparent discrepancies. (2-men/manhole)	.107		
35042	Inspect metal beams, cable racks, manhole frames and other corrosion prone equipment in manhole. Prepare and paint corroded areas, as necessary. (2-men/manhole)	.111		
35043	Check circuit identification tags for deterioration and legibility. Replace defective and missing tags. (Avg. 12 cables per manhole) (2-men/manhole)	.253		
35044	Inspect duct shields. Ensure cables are free to expand and contract and are without abrasions at duct entrance. (2-men/manhole)	.380		
35045	Check grounding cables and rods for corrosion and loose connections. Take resistance readings to ground. Report readings in excess of 3-OHMS. Tighten loose connections. (2-men/manhole)	.248		
TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION:

STANDARD NO.

35025

MANHOLE, ELECTRICAL DISTRIBUTION

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35046	Check cable racks for loose and missing anchor bolts and missing insulators. Tighten loose bolts and replace missing parts. Insure cable and joints are properly supported. (2-men/manhole)	.036		
35047	Install anode protection (magnesium bar). (2-men/manhole)	.054		
35048	Fill out maintenance record/report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

UTILITY POLE, WOOD

STANDARD NO.

35075

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35076	Fill out trip ticket (off-base pass), per day. (1-man/day)	.024		
35077	Travel between work sites, identify utility pole and record information. (1-man/pole)	.085		
35078	Inspect wood pole below ground to 18 inches. (1-man/pole)	.490		
35079	Visually inspect above ground portion of pole for excessive checking, decay, termite and other infestations, condition of preservative, lightning damage, woodpecker damage and any other apparent discrepancy. (1-man/pole)	.028		
35080	Fill out maintenance inspection record/report. (1-man/job)	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
RELAY, PROTECTIVE		35100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
35101	Fill out trip report (off-base pass), per day. (1-man/day)	.024		
35102	Notify distribution dispatcher prior to work and upon completion of work. (1-man/job)	.087		
35103	Gain access to electrical distribution facility. (1-man/job)	.023		
35104	Shift load to alternate circuit and switch back to previous circuit line-up upon completion of job, if necessary (remote switching used). (1-man/job)	.027		
35105	Remove relay from cubicle for testing and install in cubicle after testing. (1-man/relay)	.129		
35106	Prepare for tests in mobile test vehicle located at electrical distribution facility site. (1-man/job)	.035		
35107	Prepare to test protective relay(s) in maintenance facility shop. (1-man/job)	.314		
35108	Prepare to test protective relay using test equipment located within electrical distribution facility. (1-man/relay)	.013		
35109	Inspect protective relay and dress contacts, as necessary. (1-man/relay)	.175		
35110	Perform test on protective relay. (1-man/relay)	.196		
35111	Clean glass in protective relay cover. (1-man/relay)	.088		
35112	Fill out maintenance inspection record/report. (1-man/job)	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
OIL FUSE CUTOUT, POLE MOUNTED		35125		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<input type="checkbox"/> Occur	<input type="checkbox"/> TOTAL
35126	Fill out trip ticket (off-base pass), per day. (1-man/day)	.024		
35127	Travel between work sites, identify utility pole and record information. (2-men/pole)	.264		
35128	Inspect first oil fuse cutout switch on pole using bucket truck. (2-men/pole)	.769		
35129	Inspect each additional oil fuse cutout switch on same pole using bucket truck. (2-men/additional switch)	.456		
35130	Inspect first oil fuse cutout switch on pole using pole climbers. (2-men/poles)	.678		
35131	Inspect each additional oil fuse cutout switch on same pole using pole climbers. (2-men/additional switch)	.457		
35132	Fill out maintenance inspection report/record. (2-men/job)	.033		
<b>3 TOTAL EPS CRAFT HOURS</b>				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CIRCUIT BREAKER, AIR		35150		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35151	Fill out trip report (off base pass) per day.	.017		
35152	Notify dispatcher prior to work and upon completion of work.	.031		
35153	Gain access to electrical distribution/substation, open and close gates.	.039		
35154	Shift load to alternate circuit breaker bank, de-energize or energize switch by hand and remote control and engage interlock system with keys to relay and to activate after installation.	.029		
35155	Access relay cubicle and slide out breaker on dolley, remove breaker from cubicle and return to rack slide to active position.	.116		
35156	Set up test equipment for test at work site (test equipment for air gap relay).	.075		
35157	Remove ARC chutes; inspect/check condition and clean, brush, clean, blow of with high pressure air.	.200		
35158	Service relay contacts: Test conductor contacts resistance prior to service; clean contacts, check and adjust alignment, overtravel, condition of primary disconnecting contacts; adjust clean and lub coupler contacts; inspect clean and lub all external electrical connections; service/check fuses/contacts.	.637		
35159	Inspect/check lubricate clean relay components: clean breaker and check for missing or damaged parts, loose nuts, bolts, screws, insulation deterioration, non pivotal connections tight; clean bushings and insulating items with rag and solvent, inspections for cracks, electrical treeing, warpage, moisture reportable defects, rust, abnormal wear and overheating.	.213		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CIRCUIT BREAKER, AIR		35150		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35160	Clean adjust and lubricate relay mechanical mechanisms: clean and adjust closing relay and tripping solenoid/motor, operating mechanism, trip bar operation, rack mechanism lub, roller lub, trip mechanism lub, position indicator operation, check operation of cranking in/out-clean-lub indicator lights operation.	.072		
35161	Lubricate puffers and test operation.	.045		
35162	Blow clean coils and visually inspect.	.045		
35163	Check shutters that cover bus.	.032		
35164	Check cabinet heaters for satisfactory operation.	.065		
35165	Test relay, megger test three phases 6 contacts.	.410		
35166	Test relay; test operation of breaker three times (to assure trip mechanism operating with in prescribed parameters). Trip device test, long time, short time, instantaneous.	.074		
35167	Replace or clean filters/dust filters.	.019		
35168	Check/clean lubricate - interlock and key system that protects relay.	.040		
35169	Check resistance of bus leads to shore plugs from relay cubicle bus prongs.	.152		
35170	Fill out and install tag/sticker on serviced relay.	.019		
35171	Fill out maintenance record/report.	.017		
3 TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BATTERY CHARGER (RECTIFIER TYPE)		35175		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35176	Fill out trip report (off-base pass), per day. (1-man/day)	.024		
35177	Check with operating (battery charger) personnel for any known deficiencies. (1-man/job)	.027		
35178	Gain access to a secured battery charger area. (1-man/job)	.023		
35179	Turn battery charger "off" and "on" to service. (1-man/job)	.025		
35180	Clean top, sides, front and back of battery charger cabinet with brush. (Avg. 70 sq.ft.) (1-man/job)	.030		
35181	Remove and install battery charger cabinet access panels. (1-man/job)	.172		
35182	Clean battery charger rectifier. (1-man/rectifier)	.067		
35183	Inspect battery charger rectifier for signs of overheating, loose connections, corrosion and any other discrepant condition. (1-man/rectifier)	.034		
35184	Clean battery charger transformer. (1-man/transformer)	.015		
35185	Inspect battery charger transformer for signs of overheating, loose connections, faulty insulation and any other discrepant condition. (1-man/transformer)	.034		
35186	Clean interior of battery charger cabinet, including wiring. (1-man/job)	.023		
35187	Inspect internal wiring of battery charger for electrical and mechanical integrity. (1-man/job)	.069		
35188	Inspect charger plug, plug cap, plug contacts and charging cable. (1-man/charging cable)	.037		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BATTERY CHARGER (RECTIFIER TYPE) (Continued)		35175		
CHECKPOINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	Occur	TOTAL
35189	Burnish battery charger plug contacts. (1-man/charging cable)	.125		
35190	Check indicator lamps. (1-man/indicator lamp)	.057		
35191	Check fuses. (1-man/fuse)	.035		
35192	Clean fan motor and fan. (1-man/fan)	.388		
35193	Inspect battery charger fan motor, fan and mounting for mechanical integrity. Visually inspect motor for electrical integrity. (1-man/fan)	.045		
35194	Lubricate battery charger fan motor bearings. (1-man/fan)	.036		
35195	Operate fan and check for excessive vibration, faulty bearings and over heating of motor. (1-man/fan)	.017		
35196	Check battery charger ammeter for accuracy. (1-man/ammeter)	.019		
35197	Check battery charger voltmeter for accuracy. (1-man/voltmeter)	.019		
35198	Prepare for operational checks using mobile battery operated equipment (fork lift, battery truck, etc.) to supply a load for the charger. (1-man/job)	.764		
35199	Check output voltages for proper values and adjust according to specification. (1-man/output circuit)	.026		
35200	Check output amperages and adjust for proper values according to specifications. (1-man/output circuit)	.013		
35201	Adjust rate of charge temperature control. (1-man/job)	.012		
TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BATTERY CHARGER (RECTIFIER TYPE) (Continued)		35175		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
35202	Check contactor for loose connections and inspect for defective insulation, burned contacts, etc. and any other electrical or mechanical deficiency. (1-man/job)	.092		
35203	Clean/file, burnish contacts in contactor unit, as necessary.	.125		
35204	Check battery charger cabinet for identification tag. Replace or install new tag, if necessary. (1-man/job)	.007		
35205	Check battery charger cabinet for stenciled identification. Stencil over or stencil new identification, if necessary. (1-man/job)	.024		
35206	Prepare and paint inadequately protected areas of battery charger cabinet. (1-man/job)	.010		
35207	Clean up battery charging area. (1-man/job)	.051		
35208	Fill out maintenance inspection record/report. (1-man/job)	.017		
<sup>1</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BATTERY, STORAGE		35225		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35226	Fill out trip ticket (off-base pass), per day. (1-man/day)	.024		
35227	Check with operating personnel for any known deficiencies. (2-men/job)	.055		
35228	Gain access to and exit from battery operations area. (2-men/job)	.045		
35229	Move test equipment and materials from service vehicle to battery operations area and from battery operations area to service vehicle. (2-men/job)	.093		
35230	Put on and remove safety equipment. (2-men/job)	.047		
35231	Turn charging circuit to batteries "off" and "on". (1-man/job)	.019		
35232	Remove and replace battery cap. (1-man/battery)	.033		
35233	Check cell for proper electrolyte level. (1-man/battery)	.015		
35234	Fill battery with distilled water. (1 man/battery)	.047		
35235	Obtain and record specific gravity of sample battery with a hydrometer. (1-man/battery)	.053		
35236	Wipe surface of battery with cloth. (1-man/battery)	.008		
35237	Inspect battery terminal. (1-man/battery)	.010		
35238	Check tightness of battery terminal. (1-man/battery)	.002		
35239	Clean battery terminal. (1-man/battery)	.009		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BATTERY, STORAGE (Continued)		35225		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	Occur	TOTAL
35240	Disassemble battery terminal, clean, assemble and apply anti-corrosion compound. (1-man/battery)	.418		
35241	Inspect battery case for cleanliness, damage and deterioration.	.003		
35242	Clean battery case. (1-man/battery)	.003		
35243	Check cell voltage. (1-man/battery)	.216		
35244	Check total terminal voltage from charging source. (1-man/job)	.004		
35245	Check charging rate. (1-man/job)	.003		
35246	Check internal temperature of cell. (1-man/battery)	.062		
35247	Check ambient temperature. (1-man/job)	.004		
35248	Check ventilation equipment. (1-man/job)	.024		
35249	Inspect battery rack. (1-man/battery)	.001		
35250	Clean battery rack. (1-man/battery)	.002		
35251	Prepare and paint battery rack. (1-man/battery)	.004		
35252	Clean-up battery charging area. (1-man/job)	.051		
35253	Fill out maintenance record/report. (1-man/job)	.017		
TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CATHODIC PROTECTION		35275		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35276	Fill out trip ticket (off-base pass), per day. (1-man/day)	.024		
35277	Gain access to and exit from a shop controlled secure area. (2-men/job)	.045		
35278	Remove all debris and foreign materials in and around cathodic protection rectifier cabinet. (1-man/cabinet)	.051		
35279	Trim grass and weeds in area around cathodic protection rectifier cabinet. (1-man/cabinet)	.096		
35280	Read kilowatt hour meter and record reading. (1-man/job)	.004		
35281	Unlock and lock rectifier cabinet. (1-man/cabinet)	.002		
35282	Turn power to impressed current system "off" and "on" (Avg. 3 times). (1-man/job)	.019		
35283	Inspect exterior of rectifier cabinet and all exposed connecting conduit (Avg. 15 FT.) and fittings for corrosion, deteriorated paint, mechanical integrity and cleanliness. (1-man/cabinet)	.046		
35284	Clean exterior of rectifier cabinet. (1-man/cabinet)	.035		
35285	Lubricate rectifier cabinet door hinges and hardware. (1-man/cabinet)	.006		
35286	Prepare and touch up rusted and/or paint damaged areas on exterior of rectifier cabinet (Avg. 1 timeout of every 12 checks). (1-man/cabinet)	.014		
35287	Replace inoperative indicator lamp. (1-man/lamp)	.057		
35288	Clean interior of rectifier cabinet. (1-man/cabinet)	.006		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CATHODIC PROTECTION (Continued)		35275		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
35289	Visually inspect rectifier filter for signs of overheating and any other discrepancies. Check fused capacitor for blown fuses. (1-man/rectifier)	.008		
35290	Check air cooled rectifier stack for free air circulation and cleanliness. (1-man/air cooled rectifier)	.005		
35291	Feel each segment of air cooled rectifier stack for warmth immediately after shutdown to insure all segments are operational. (1-man/air cooled rectifier)	.009		
35292	Check oil cooled rectifier for proper oil level. (1-man/oil cooled rectifier)	.001		
35293	Draw sample of oil from oil cooled rectifier for testing. (1-man/oil cooled rectifier)	.032		
35294	Check for water contamination of oil in oil cooled rectifier. (1-man/oil cooled rectifier)	.006		
35295	Inspect oil cooled rectifier for oil leak, damage, over heating, etc. (1-man/oil cooled rectifier)	.011		
35296	Check oil temperature in oil cooled rectifier and record reading. (1-man/oil cooled rectifier)	.003		
35297	Inspect wiring in rectifier cabinet for fraying, signs of overheating, deterioration and mechanical damage. (1-man/rectifier)	.014		
35298	Check for loose electrical connections in rectifier cabinet and tighten as necessary. (1-man/rectifier)	.092		
35299	Check electrical contacts for overheating and pitting. (1-man/rectifier)	.058		
35300	Check rectifier unit for arc pathes. (1-man/rectifier)	.005		
35301	Make minor repairs to rectifier unit. (1-man/rectifier)	.007		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CATHODIC PROTECTION (Continued)		35275		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35302	Check test instruments. (1-man/job)	.002		
35303	Check operation of on-line panel meter for "zero" reading. (1-man/meter)	.004		
35304	Check operation of off-line panel meter (press-to-read switch). (1-man/meter)	.004		
35305	Check panel voltmeter with standard. (1-man/voltmeter)	.021		
35306	Check panel ammeter with standard. (1-man/ammeter)	.027		
35307	Read voltage and current on panel meters and record. (1-man/rectifier)	.005		
35308	Measure rectifier voltage with portable meter and record. (1-man/rectifier)	.021		
35309	Measure rectifier current using portable meter and record. (1-man/rectifier)	.024		
35310	Calculate circuit resistance using OHM's law and record results on cathodic protection form. (1-man/rectifier)	.035		
35311	Record rectifier output voltage and current as found, adjust as necessary and record voltage and current as left. (1-man/rectifier)	.008		
35312	Record transformer tap setting. (1-man/transformer)	.004		
35313	Remove weeds, grass and debris from vicinity of test station. (1-man/test station)	.051		
35314	Inspect for ground disturbances in vicinity of and along paths of anode beds. (1-man/100 L.F.)	.039		
35315	Remove and install test station enclosure cover. (1-man/test station)	.034		
3 TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO. 35275		
CATHODIC PROTECTION (Continued)				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
35316	Measure structure-to-soil potential and record reading on cathodic protection form. (impressed current system) (2-men/test point)	.034		
35317	Measure anode-to-structure current at shunt and record reading on cathodic protection form. (impressed current system) (1-man/anode)	.006		
35318	Check and tighten loose connections at test station. (1-man/test station)	.003		
35319	Measure anode-to-soil (electrolyte potential and record reading on cathodic protection form. (2-men/anode)	.046		
35320	Measure anode-to-structure potential and record reading on cathodic protection form. (1-man/anode)	.010		
35321	Measure pipe-to-soil potential (sacrificial anode system) and record reading on cathodic protection form. (2-men/test point)	.034		
35322	Measure anode-to-structure current at shunt (sacrificial anode system) and record reading on cathodic protection form. (1-man/anode)	.006		
35323	Adjust anode resistor (anode bed lead). (1-man/anode)	.024		
35324	Check soil condition at test point and record on cathodic protection form. (1-man/test point)	.006		
35325	Fill out maintenance record/report. (1-man/job)	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
STATIC GROUNDS		35400		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35401	Obtain off base pass per man per day.	.024		
35402	Obtain clearance from guard to enter area to test grounds.	.040		
35403	Co-ordinate ground inspection with on site personnel.	.121		
35404	Obtain, set up and put away ohmmeter.	.037		
35405	Obtain, set up and put away vibroground.	.038		
35406	Inspect cables and ground rods for corrosion. per ground	.131		
35407	Drive reference pins, attach cables and check ground with ohmmeter and record. per ground	.084		
35408	Drive reference pins, attach cables and check ground with vibroground and record. per ground	.069		
35409	Walk fence or exterior of building to next ground. per fifty feet. per 50 feet	003		
35410	Walk within building, magazine, etc. to next ground per twenty feet. per 20 feet	.001		
35411	Open and shut magazine doors during ground check.	.002		
35412	Open and shut fence gate during ground check.	.001		
35413	Tighten ground connections as needed. per ground	.007		
35414	Remove ground clamp, file to clean up and install. per ground	.051		
35415	Locate and repair broken ground. per ground	.059		
35416	Record ground readings and provide copy to user agency.	.020		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
EMERGENCY POWER UNIT		35425		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
35426	Check with operating personnel for any known discrepancies and arrange for power unit test.	.066		
35427	Observe charging rate of unit.	.001		
35428	Depress test button and monitor load transfer.	.010		
35429	Check battery water, specific gravity, general condition and wipe down batteries with cloth.	.390		
35430	Inspect battery charger for signs of overheating.	.005		
35431	Inspect inverter units for signs of overheating or corrosion.	.010		
35432	Turn power supply circuit breaker off to run batteries down until outside power is cut off. Apply input power and allow batteries to fully charge on line.	.071		
35433	Make necessary adjustments and tighten loose connections.	.092		
35434	Report any deficiencies for corrective action.	.003		
35435	Clean up area around emergency power unit and dispose of debris.	.051		
35436	Fill out maintenance report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
TRAFFIC SIGNAL LIGHT		35450		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
35451	Locate traffic light and control cabinet from base map.	008		
35452	Unlock, inspect, clean and lock control cabinet.	.017		
35453	Tighten all control electrical connections and inspect for frayed wiring.	.092		
35454	Check cabinet exhaust fan operation.	.006		
35455	Inspect cabinet exhaust fan vents for blockage or damage.	.003		
35456	Inspect and tighten power line connections to control cabinet.	.034		
35457	Inspect cabinet heater operation.	.037		
35458	Perform operational check of traffic controller.	.014		
35459	Check controller phase timing with stop watch.	.018		
35460	Check controller pedestrian phase timing with stop watch.	.043		
35461	Check controller clocks for correct time and log settings on maintenance form.	.007		
35462	Walk a circuit of the intersection to see that all lights are burning.	.092		
35463	Check operation of pedestrian push buttons - average of two per intersection.	.084		
35464	Check operation of all information signs.	.042		
35465	Check operation of phase detectors (loop amplifiers)	.144		
35466	Visually inspect road sensors for damage or exposure.	.074		
35467	Check operation of flashers.	.018		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
TRAFFIC SIGNAL LIGHT		35450		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
35468	Check height of hanging signals with measured length of conduit or similar - fifteen foot minimum required.	.036		
35469	Fill out maintenance report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

35475

GLOVES, LINEMEN'S RUBBER INSULATING  
1 batch = 6 gloves (3 Pairs)

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35476	Visually inspect gloves and select 3-pair that are free of obvious defects. (1-man/batch)	.031		
35477	Wash gloves in washing machine. (1-man/batch)	.009		
35478	Prepare for high voltage tests. (1-man/batch)	.052		
35479	Conduct electrical proof test. (1-man/batch)	.060		
35480	Measure and record beakage current. (1-man/batch)	.025		
35481	Terminate tests and air dry gloves. (1-man/batch)	.031		
35482	Stamp gloves with recall date and annotate log. (1-man/batch)	.032		
35483	Coat inside of gloves with talc. (1-man/batch)	.086		
35484	Fill out maintenance record/report. (1-man/job)	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
EXTERIOR POWER DISTRIBUTION EQUIPMENT		35500		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35501	Perform PM on small dry core transformer less than 600V, including brushing exterior, check and tightening connections, and clean up.	.444		
35502	Perform PM on oil type transformer; including cleaning exterior (not including bushings), checking and recording oil levels and temperatures and taking oil sample. (2 men)	.606		
35503	Perform PM on pole mounted oil type transformer; including cleaning exterior (not bushings), check and record oil temps & levels, and taking oil sample. (2 men)	.789		
35504	Gain access to substation, open and close gates.	.035		
35505	Open and close 3-phase switchgear circuit breaker, including calling distribution dispatcher and rolling out and in.	.126		
35506	Install and remove grounding cluster from ground using hot stick.	.166		
35507	Inspect and clean bushings on high voltage equipment.	.247		
35508	Open or close air gap gang switch.	.048		
35509	Open and close access doors or panels to high voltage buss bars.	.151		
35510	Check high voltage equipment for electric charge using statoscope after equipment is disconnected.	.056		
35511	Crank out (roll down) and crank in (roll up) high voltage circuit breaker - distribution switch.	.063		
35512	Clean up area per 100 sq. ft.	.051		
35513	Fill out maintenance record or report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

35625

INTERIOR ELECTRIC DISTRIBUTION

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
35626	Inspect and clean electric panels.	.044		
35627	Inspect control relays and check pressure controls.	.101		
35628	Inspect and clean motor contactors.	.138		
35629	Clean up equipment and area per 100 sq. ft.	.051		
35630	Fill out maintenance record or report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
EMERGENCY LIGHT		35650		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35651	Clean exterior of emergency light cabinet and lamp heads.	.019		
35652	Check condition of battery, change batteries if necessary.	.009		
35653	Clean interior of cabinet, top of battery and battery terminals.	.007		
35654	Inspect cabinet, relay, relay contacts, pilot light, wiring and general condition.	.050		
35655	Check electrolyte level in battery and add distilled water if necessary.	.009		
35656	Apply anti-corrosion coating to battery terminals.	.008		
35657	Test for proper operation.	.010		
35658	Adjust lamp heads for maximum illumination of area.	.030		
35659	Travel on foot to the next light within the building or return to truck.	.020		
35660	Fill out inspection report, check off card and/or log.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

EMERGENCY GENERATOR - UP TO 15 KVA

35925

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
35926	Check oil level and add as required.	.008		
35927	Check battery water and add as required; check terminals for corrosion and clean as required.	.092		
35928	Test run generator; Check for proper operation and switching while running.	.268		
35929	Check belt tension and wear, adjust as required.	.009		
35930	Check fuel level with gage pole.	.035		
35931	Check air filter, change as required.	.030		
35932	Change engine oil on regular cycle, 1 gallon.	.131		
35933	Check spark plug condition, per plug.	.027		
35934	Check wiring, connections, switches, etc.; tighten loose connections.	.028		
35935	Wipe dust and dirt from unit, per 5 sq. ft.	.043		
35936	Clean floor around generator.	.051		
35937	Fill out maintenance record or report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
EMERGENCY GENERATOR - GREATER THAN 15 KVA		35950		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
35951	Check crank case oil level and add if required.	.011		
35952	Check radiator water and add if required.	.009		
35953	Check battery water and add if required; check for corrosion and clean if required.	.185		
35954	Test run generator for proper operation.	.318		
35955	Check belt for wear and proper tension, adjust as required.	.009		
35956	Check fuel level in underground tank with age pole.	.035		
35957	Check condition of air filter, replace as required.	.030		
35958	Change diesel engine oil, avg 4 gallons.	.393		
35959	Change gasoline engine oil.	.172		
35960	Change engine oil filter.	.045		
35961	Check spark plug on internal combustion engine plug, includes check and reset gap.	.027		
35962	Check wiring, connections, switches, etc., tighten loose connections.	.092		
35963	Wipe dust and dirt from engine and generator.	.084		
35964	Clean floor area around generator.	.051		
35965	Fill out maintenance record or report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FIRE PROTECTION - SPRINKLER ALARM VALVE		40100		
NOTE: These checkpoints are applicable to all sprinkler alarm systems and related detection/actuation devices and other sprinkler equipment.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
40101	Check fractional horsepower air compressor (air supply for dry sprinkler or preaction alarm valve systems)	.129		
40102	Check operational condition of fire department connection (Siamese connection)	.079		
40103	Call fire alarm control center to place master alarm box out of and into service for sprinkler alarm valve operational check	.106		
40104	Reset master alarm box auxiliary trip coil between alarm valve trip tests	.068		
40105	Check operation of P.I.V. post indicator valve or O.S.&Y. outside stem and yoke control valve	.045		
40106	Visually inspect sprinkler heads for system (per head)	.003		
40107	Check general condition of wet alarm valve, alarm valve enclosure and deluge alarm valve	.194		
40108	Check general condition of dry alarm or preaction alarm valve and valve enclosure	.322		
40109	Check pressure gauge for accuracy against bench tested standard gauge	.056		
40110	Replace pressure gauge	.044		
40111	Obtain access to sprinkler valve enclosure or machine room	.027		
40112	Perform 2" full flow drain test on dry sprinkler, deluge sprinkler or preaction sprinkler alarm systems	.135		
40113	Perform 2" full flow drain test on wet sprinkler alarm valve system	.256		
40114	Perform dry sprinkler alarm valve trip test (includes draining lines and resetting valve)	1.333		
40115	Clean and overhaul 4" check valve. Includes replace gasket	.159		
				con.

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FIRE PROTECTION - SPRINKLER ALARM VALVE		40100 con.		
NOTE: These checkpoints are applicable to all sprinkler alarm systems and related detection/actuation devices and other sprinkler equipment.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
40116	Check operation of post indicator valve and clean indicator windows	.447		
40117	Fill out maintenance record/report	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FIRE ALARM - MUNICIPAL TYPE MASTER FIRE ALARM BOX		40200		
Checkpoints apply to master fire alarm boxes for one loop. Times shown are for one craftsperson and should be adjusted when additional shop personnel, rather than F.D. personnel, participates in the checks.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
40201	Travel on foot from alarm headquarters to first box in a compact loop	.037		
40202	Open and close box doors and travel on foot (compact loop) to next box or return to alarm headquarters (per box)	.042		
40203	Travel in motorized vehicle from alarm headquarters to first box in an expanded loop	.040		
40204	Open and close box doors and travel in motorized vehicle (expanded loop) to next box or return to alarm headquarters (per box)	.044		
40205	Clean inside of box and tighten loose connections (per box)	.030		
40206	Visually inspect interior of box for discrepancies (per box)	.034		
40207	Lubricate box (per box)	.013		
40208	Perform operational check through complete cycle and restore box to operational state (per box)	.028		
40209	Clean exterior of box (per box)	.023		
40210	Inspect exterior of box, indicating light and surrounding area (per box)	.084		
40211	Test lightning arrestor	.123		
40212	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FIRE ALARM - MUNICIPAL TYPE AUXILIARY CIRCUIT PULL BOX		40300		
Checkpoints apply to pull boxes for one auxiliary circuit. Times shown are for one craftsperson and should be adjusted when additional shop personnel rather than F.D. personnel, participates in the checks.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
40301	Travel in motorized vehicle from alarm headquarters to master fire alarm box for auxiliary circuit	.040		
40302	Coordinate tests of circuit with cognizant personnel in protected area. Set local panel for test	.086		
40303	Travel on foot from custodial area to first pull box in circuit	.016		
40304	Open and close pull box with key and travel to the next pull box or return to the custodial area (per box)	.019		
40305	Clean exterior of pull box (per box)	.015		
40306	Clean inside of pull box and tighten loose connections (per box)	.030		
40307	Visually inspect interior of pull box for discrepancies (per box)	.008		
40308	Inspect exterior of pull box (per box)	.004		
40309	Conduct test of pull box (per box)	.005		
40310	Set-up local equipment for normal operation and notify custodian upon completion of tests	.061		
40311	Test lightning arrestor	.123		
40312	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FIRE PROTECTION - ELECTRIC POWER SOURCES (BATTERIES, CHARGERS, TRANSFORMERS, ETC.)		40425		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<input type="checkbox"/> 1 Occur	<input type="checkbox"/> 2 TOTAL
40426	Check water level in 12 volt, 6 cell-pull out type cap battery for fire alarm system.	.034		
40427	Add water to 12 volt, 6 cell, friction type cap battery, and brush corrosion off two battery posts and two cable terminals.	.092		
40428	Apply grease on battery posts and cable terminals.	.507		
40429	Check charge rate of 12 volt battery (battery charger).	.035		
40430	Fill out inspection report; check off card and/or log.	.017		
<input type="checkbox"/> 3 TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

40450

FIRE PROTECTION - WATER PUMPING FACILITY AND DISTRIBUTION SYSTEM

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
40451	Walk to fire pump house and return (70 paces roundtrip) one man.	.011		
40452	Open and close door to emergency fire pump house pad lock type. one man.	.011		
40453	Walk in and around inside of fire pump house--partially obstructed. one man.	.016		
40454	Make visual check of oil level on fire pump. one man.	.005		
40455	Add oil to emergency fire pump. one man.	.058		
40456	Check water level in radiator of emergency fire pump. one man.	.005		
40457	Add water in radiator of emergency fire pump. one man.	.021		
40458	Make visual check of automatic choke on emergency fire pump. one man.	.003		
40459	Make visual check of 12 spark plug wires (6 cyl. engine, two wires per cylinder). one man.	.017		
40460	Close and open PI (post indicator) valve. one man.	.037		
40461	Start emergency fire pump. one man.	.511		
40462	Shut down emergency fire pump. one man.	.007		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FIRE PROTECTION - DRY SPRINKLER SYSTEM		40600		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
40601	Walk from pickup to master fire alarm box and return. (1-man)	.030		
40602	Take master fire alarm box out of and back into service. (1-man)	.106		
40603	Walk from master fire alarm box to PI valve. (1-man)	.030		
40604	Visually inspect PI valve to see if water is on or off. (1-man)	.003		
40605	Turn PI (post indicator) valve a few turns to see if water is on. (1-man)	.004		
40606	Perform maintenance on post indicator valve or dry pipe valve (includes clean, inspect, and lubricate).	.447		
40607	Walk to building and notify responsible personnel of fire alarm test to be conducted. (1-man).	.045		
40608	Walk from building (after testing of fire alarm system) to sprinkler valve house. (1-man)	.023		
40609	Open and close door to sprinkler valve house and turn light on and off. (1-man)	.032		
40610	Walk in around machinery inside valve house in performing pm on air compressor, unobstructed. (Based on one man)	.003		
40611	Make visual check of air gauge. (1-man)	.003		
40612	Troubleshoot malfunctioning of air compressor. (1-man)	.025		
40613	Inspect exposed motor in dry sprinkler system.	.003		
40614	Make visual check of fire alarm valve to see if open or closed. (1-man)	.003		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO. 40600		
FIRE PROTECTION - DRY SPRINKLER SYSTEM (Continued)				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
40615	Bleed water from dry sprinkler system pipes.	.166		
40616	Drain down air compressor (remove condensate). (1-man).	.170		
40717	Check oil on air compressor. (1-man)	.005		
40718	Check oil on air compressor and add oil as required. (1-man)	.017		
40619	Perform preventive maintenance on belt to air compressor motor. (1-man)	.079		
40620	Turn handle on air compressor valve to see if open or closed. (1-man)	.002		
40621	Pump air into dry sprinkler system.	.101		
40622	Drain condensate from sprinkler valve. (1-man)	.025		
40623	Make visual inspection of air and water pressure gauges. (1-man)	.003		
40624	Remove old and install new air or water gauge -- includes opening and closing valve. (1-man)	.020		
40625	Open and close fire alarm valve (to insure no water in lines).			
40626	Conduct test on fire alarm valve (dry or wet system) to see if master alarm box tripped. (1-man)	.017		
40627	Conduct general inspection of sprinkler valve and piping hangers and risers. (1-man)	.077		
40628	Trip and reset sprinkler valve. (1-man)	1.332		
40629	Inspect sprinkler head in dry sprinkler system.	.139		
40630	Walk from sprinkler valve house to master fire alarm box. (1-man).	.030		
<sup>3</sup>	TOTAL EPS CRAFT HOURS			

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FIRE PREVENTION - WET SPRINKLER SYSTEM (Continued)		40675		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
40676	Walk from pickup to master fire alarm box. (1-man)	.015		
40677	Take master fire alarm box out of and back into service.	.106		
40678	Walk from master fire alarm box to post indicator (PI) valve. (1-man)	.030		
40679	Visually inspect PI valve to see if water is on or off. (1-man)	.003		
40680	Turn PI valve a few turns (5 Revolutions) to see if the water is on. (1-man)	.004		
40681	Walk from PI valve to sprinkler house. (1-man)	.030		
40682	Open and close door to sprinkler house and turn light on and off. (1-man)	.032		
40683	Make visual check of air gauge. (1-man)	.003		
40684	Open and close air or water gauge to see if needle gauge moves. (1-man)	.002		
40685	Notify building personnel and fire department headquarters if pressure on air or water gauges is low. (1-man)	.015		
40686	Notify building personnel that fire alarm test is going to be conducted. (1-man)	.015		
40687	Check sprinkler valve for operational test (opening test alarm valve will set off fire alarm and will simulate sprinkler head(s) being set off). (1-man)	.013		
40688	Conduct flow test by opening 2" main drain valve to make sure there is full fire main pressure. (1-man)	.256		
40689	Turn fire alarm switch on and off. (Light type) (1-man)	.028		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
FIRE PREVENTION - WET SPRINKLER SYSTEM (Continued)		40675	
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur <sup>2</sup> TOTAL
40690	Pump head pressure back up in wet sprinkler system. (1-man)	.979	
40691	Walk from pickup to master fire alarm box and return (400 steps roundtrip). (1-man)	.060	
<sup>3</sup> TOTAL EPS CRAFT HOURS			

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

FIRE PROTECTION - HYDRANT

STANDARD NO.

40775

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
40776	Remove old and install new gasket on 2-1/2" or 4-1/2" fire hydrant cap connection.	.185		
40777	Disconnect and install fire hydrant flanged joint cap.	.341		
40778	Flush fire hydrant and lubricate.	.288		
40779	Perform routine maintenance on fire hydrant (includes clean, inspect, lubricate, and flush). (Type with cover assembly secured to barrel by lock or shield nut)	.591		
40780	Perform maintenance on floor or wall type siamese hydrants.	.249		
3	TOTAL EPS CRAFT HOURS			

# **P/R M STANDARDS SHEET**

EQUIPMENT DESCRIPTION		STANDARD NO.		
HEATING SYSTEM - LOW PRESSURE STEAM/HOT WATER; OIL, GAS OR COMBINATION FIRED		45100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
45101	Check combustion chamber for air or gas leaks	.059		
45102	Inspect and clean oil burner gun and ignition assembly	.506		
45103	Inspect fuel system for leaks	.012		
45104	Change fuel filter element for oil burning equipment	.066		
45105	Check tank fuel level. Check tank, lines and connections for damage	.017		
45106	Check for proper operational response of burner to thermostat controls	.102		
45107	Check and lubricate oil burner/blower	.061		
45108	Check main flame failure protection (gas or oil), include full cycle operation	.095		
45109	Check pilot flame failure protection for gas burner equipment	.033		
45110	Check main flame detection scanner on boiler equipped with spark ignition (oil burner)	.147		
45111	Check flame detection scanner (main and pilot) for boiler equipped with pilot flame (gas burner) includes full cycle burner check	.399		
45112	Check electrical wiring to burner controls and blower	.061		
45113	Clean fire box (sweep and vacuum)	.444		
45114	Check operation of mercury control switches (i.e. steam pressure, hot water temperature limit, atomizing or combustion air proving, etc.)	.110		
45115	Check condition of flue pipe, damper and exhaust stack	.113		
45116	Inspect gas pressure regulator for dirt accumulation and clean	.029		
45117	Check gas pressure regulator for accuracy using water column pressure gage	.067		
				con.

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
HEATING SYSTEM - LOW PRESSURE STEAM/HOT WATER; OIL, GAS OR COMBINATION FIRED		45100 con.	
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<input type="checkbox"/> Occur <input type="checkbox"/> TOTAL
45118	Check operation and condition of safety pressure relief valve.	.023	
45119	Check operation of boiler low-water cut off devices (per device).	.043	
45120	Check pressure gauges.	.056	
45121	Inspect and clean water column sight glass (or replace).	.098	
45122	Clean fire side of water jacket boiler.	.333	
45123	Perform exterior inspection on fire tube boiler (3348-6696 lbs/hr, 100-200 hp). Includes foundation, doors, lagging, leakages and area.	.383	
45124	Perform exterior inspection on water tube boiler (16740-33480 lbs/hr, 500-1000 hp). Includes foundation, doors, lagging, leakages and area.	.464	
45125	Perform internal inspection on fire tube boiler (3348-6696 lbs/hr, 100-200 hp). Includes water side metal surfaces, stays and braces, fire tube sheds, manholes, plugs, fire side surfaces, ligaments, burners, grates, dampers, etc.	.671	
45126	Perform internal inspection on water tube boiler (16740-33480 lbs/hr, 500-1000 hp). Includes fire side surfaces, drum plates, stays and braces, manholes, piping, furnace tubes, ligaments, flanges, etc.	1.426	
45127	Perform hydrostatic inspection of fire tube boiler (3348-6696 lbs/hr, 100-200 hp).	1.464	
45128	Perform hydrostatic inspection on water tube boiler (16740-33480 lbs/hr, 500-1000 hp).	2.409	
45129	Clean up boiler room (per 100 sq ft).	.051	
45130	Fill out maintenance record/report.	.017	
3 TOTAL EPS CRAFT HOURS			



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

HEATING SYSTEM - FORCED AIR; OIL OR GAS FIRED

STANDARD NO.

45200

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
45201	Check combustion chamber for gas and oil leaks	.059		
45202	Inspect, clean and adjust electrodes and nozzles on oil burners. Inspect fire	.195		
45203	Inspect fuel system for leaks	.012		
45204	Change fuel strainer element on oil burner	.052		
45205	Check fuel level in tank. Check tank, fill pipe, fuel lines and connections for leaks	.017		
45206	Check for proper operation of pilot and burner primary controls. Check and adjust thermostat	.102		
45207	Remove and reinstall filter panel or blower access panel	.037		
45208	Inspect air filter in air handler and replace if required (per filter)	.007		
45209	Check blower and motor for alignment, vibration and lubrication. Lubricate bearings if required	.032		
45210	Check belts for wear and proper tension. Tighten if required	.022		
45211	Check burner operation through complete cycle or up to 10 minutes	.173		
45212	Check electrical wiring to burner controls and blower	.061		
45213	Clean fire box (sweep and vacuum)	.444		
45214	Clean blower and air plenum	.226		
45215	Check condition of flue pipe, damper and stack	.113		
45216	Check building boiler gas pressure regulator vents for cleanliness and leaks	.012		
45217	Check gas pressure regulator by using water column pressure gage	.067		
45218	Clean up area around unit	.051		
45219	Fill out maintenance record/report	.017		
<sup>3</sup>	TOTAL EPS CRAFT HOURS			

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
WATER HEATER - GAS OR OIL FIRED		45300		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
45301	Check for water leaks to tank and piping. Check for fuel system leaks	.059		
45302	Adjust pilot fire on oil burner	.209		
45303	Check pilot on oil burner. Adjust if required	.056		
45304	Check pilot on gas burner. Adjust if required	.010		
45305	Check gas burner for proper flame. Adjust if required	.081		
45306	Adjust oil burner flame	.206		
45307	Check oil burner flame. Adjust if required	.122		
45308	Check operation and condition of relief valve	.008		
45309	Check automatic controls for proper operation (temperature regulators, thermostatic devices, automatic fuel shut off valve, etc)	.072		
45310	Check draft diverter and clear openings if clogged (gas burners)	.021		
45311	Check fuel strainer element on oil burner	.052		
45312	Check fuel level in tank. Check tank, fill pipe and fuel lines and connections for damage	.017		
45313	Inspect, clean, and adjust electrodes and nozzles on oil burners. Inspect fire box and flame detection scanner	.195		
45314	Check electrical wiring for fraying and loose connections on oil burner	.055		
45315	Check for proper water temperature setting. Adjust as required	.002		
45316	Clean fire box	.444		
45317	Check for proper draft adjustment. Adjust draft meter if necessary (oil burners)	.004		
45318	Check gas pressure regulator by using water column pressure gage	.067		
				con.

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
WATER HEATER - GAS OR OIL FIRED		45300 con.		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
45319	Check condition of flue pipe, damper and chimney	.113		
45320	Drain and flush tank (average 75 gal)	1.013		
45321	Clean up area around unit	.051		
45322	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
HEAT EXCHANGER, TUBE BUNDLE; STEAM		45400		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
45401	Check relief valve for proper operation	.029		
45402	Check for proper water temperature. Check temperature controls for proper operation	.072		
45403	Check and lubricate circulating pump	.131		
45404	Remove tube bundle, inspect and reinstall. Check for leak and proper operation after installation	.833		
45405	Clean/delime tube bundle in acid bath (soaking time not included)	.081		
45406	Clean up area around unit, including spilled water, debris, etc. (100 sq ft)	.051		
45407	Fill out maintenance record/report	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
STEAM DISTRIBUTION EQUIPMENT		45500		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
45501	Check operation and condition of pressure safety relief valve	.023		
45502	Check and clean Y-strainer(up to 2")	.159		
45503	Check and clean Y-strainer(larger than 2")	.303		
45504	Check and clean basket strainer	.289		
45505	Inspect and repack 8" double (Traverse) sliding expansion joint (injection packed)	.701		
45506	Inspect and repack 8" single (traverse) sliding expansion joint (injection packed)	.364		
45507	Inspect and repack thread gland expansion joint(up to 3" dia.)	.503		
45508	Inspect and repack single (traverse) sliding flanged expansion joint(up to 8" dia.)	1.030		
45509	Inspect and repack double (traverse) sliding flanged expansion joint(up to 8" dia.)	2.012		
45510	Inspect and repack single sliding (traverse) flanged expansion joint(greater than 8" dia.)	1.580		
45511	Inspect and repack double sliding (traverse) flanged expansion joint greater(than 8" dia.)	2.873		
45512	Repack valve with threaded packing gland(up to 3" I.D. )	.282		
45513	Repack valve with bolted flange packing gland, (2" I.D. and larger, stem and yoke)	.506		
45514	Clean air or water separator, float type with 1" I.D. fittings	.304		
45515	Clean thermostatic steam trap	.075		
45516	Clean drip pocket (2")	.183		
45517	Inspect, clean and rebuild bucket steam trap	.283		
45518	Inspect and clean bucket steam trap (high volume, upright float)	.641		
				con.

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
STEAM DISTRIBUTION EQUIPMENT		45500 con.		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
45519	Inspect, clean and repair float and thermostatic steam trap (up to 2" diameter)	.325		
45520	Inspect, clean and rebuild pilot control valve for pressure reducing valve	.398		
45521	Inspect, clean and rebuild, vacuum valve or balancing arm pressure reducing valve	.478		
45522	Inspect and clean check valve (2" to 4")	.159		
45523	Inspect, clean and rebuild pressure regulating valve	.553		
45524	Pump water from mechanical room	.197		
45525	Check unions for leaks or cracks	.059		
45526	Prepare manhole before and after work	.198		
45527	Clean up manhole area	.051		
45528	Fill out maintenance record/report	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

45550

STEAM DISTRIBUTION SYSTEM - HIGH PRESSURE

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1) Occur	2) TOTAL
45551	Fill out trip ticket (off base pass) per day per man.	.024		
45552	Travel high line route in vehicle visually checking for steam leaks or discrepancies per mile per man.	.087		
45553	Travel high line route walking if inaccessible by vehicle visually checking for steam leaks or discrepancies per 1000 ft per man.	.048		
45554	Tighten high pressure steam line gate valve (3/4" to 2 1/2") packing gland nuts using ladder. per valve	.211		
45555	Tighten high pressure steam line gate valve (3" to 6") packing gland nuts using ladder. per valve	.317		
45556	Tighten high pressure steam line gate valve (7" and up) packing gland nuts using ladder. per valve	.409		
45557	Remove, clean and install screen in "Y" type strainer. per valve	.145		
45558	Remove and install trap in condensate line. per trap	.383		
45559	Remove and install strainer in condensate line. per strainer	.303		
45560	Remove old and install new hand wheel on 3/4" to 4" gate valve using ladder. per valve	.260		
45561	Remove old and install new hand wheel on 3/4" to 4" gate valve from ground level. per valve	.134		
45562	Remove old and install new nipple or pipe section in condensate line.	.498		
45563	Replace 2 1/2" to 4" gate valve in high line using ladder (15' to 30' high). per valve	2.014		
45564	Repack high pressure steam gate valve (6" to 8") in high line using ladder (15' to 30' high). per valve	1.935		
3)	TOTAL EPS CRAFT HOURS			

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO. 45550		
STEAM DISTRIBUTION SYSTEM - HIGH PRESSURE				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
45565	Inspect and repack double sliding (traverse) flanged expansion joint up to 8" diameter using ladder.	1.854		
45566	Inspect and repack double sliding (traverse) flanged expansion joint (greater than 8" diameter) using ladder.	1.625		
45567	Inspect and repack single sliding (traverse) expansion joint (injection packed) using ladder.	.484		
45568	Inspect and repack double sliding (traverse) expansion joint (injection packed) using ladder.	.807		
45569	Inspect and repack single sliding (traverse) flanged expansion joint (up to 8" diameter) using ladder.	1.199		
45570	Inspect and repack single sliding (traverse) flanged expansion joint (greater than 8" diameter) using ladder.	1.710		
45571	Repair steam meter. meter	1.970		
45572	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
STEAM DISTRIBUTION SYSTEM - WATERFRONT AND PIER		45575		
CHECK- <sup>2</sup> POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
45576	Travel pier by vehicle looking for discrepancies.	.068		
45577	Walk along pier looking for discrepancies.	.036		
45578	Travel from one pier to another by vehicle.	.004		
45579	Remove grate or cover plate for inspection. Inspect access and replace grate access.	.064		
45580	List discrepancies that are not emergencies.	.013		
45581	Call in by radio to shop any emergency discrepancies.	.016		
45582	Walk finger piers and look for discrepancies.	.036		
45583	Notify ships of steam shutdown for repairs.	.027		
45584	To truck for tools and return.	.009		
45585	Check operation and condition of pressure safety relief valve.	.823		
45586	Check and clean "Y" strainer (over 2" dia).	.303		
45587	Inspect and repack double (traverse) sliding flanged expansion joint (up to 8" dia.).	2.012		
45588	Repack valve with bolted flanged packing gland (2" and over).	.506		
45589	Clean thermostatic steam trap.	.075		
45590	Clean steam drip pocket.	.183		
45591	Inspect and clean steam bucket trap.	.641		
45592	Inspect and clean 4" check valve.	.159		
45593	Tighten high pressure steam line gate valve.	.317		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BOILER, PULSE COMBUSTION HEATING PLANT		45600		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
45601	Gain access to machine room with shop key.	.011		
45602	Check with heating plant operating personnel for any obvious discrepancies.	.066		
45603	Inspect air supply inlet and exhaust outlets for blockage or restrictions.	.155		
45604	Inspect air supply inlet and exhaust piping for cracks, unsealed joints, sagging or loose and missing hangers.	.081		
45605	Inspect for condition of air/gas valve and discs to gas cushion chamber sub assembly.	.176		
45606	Check condition of spark plug and clean or replace as needed.	.161		
45607	Check unit "on" rate with manometer.	.091		
45608	Check purge fan operation and working pressure.	.043		
45609	Test and lubricate circulating pump.	.103		
45610	Check condensate line for obstructions.	.111		
45611	Check compression tank level and drain or fill as required.	.135		
45612	Test operate pump and adjust float as needed.	.309		
45613	Check sequence timing while unit is operating.	.089		
45614	Clean up area after maintenance.	.051		
45615	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
HOIST, CHAIN; MANUAL - UP TO 5 TON CAPACITY		50100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
50101	Fill out trip ticket (off base) per day	.025		
50102	Check with hoist operating personnel for any known deficiencies	.027		
50103	Operate hoist	.010		
50104	Inspect jib crane boom for damaged structural members, alignment, worn pins, column fasteners, trolley stops and capacity markings	.181		
50105	Inspect underhung hoist monorail (less than 5 ton capacity) for damaged structural members, braces, stops and capacity markings	.123		
50106	Pull hoist along rail to check for unevenness of rail or wheels or other damage	.012		
50107	Inspect and lubricate trolley wheels and bearings	.074		
50108	Inspect, clean and lubricate hook and chain sheaves	.076		
50109	Check operation of hoist brakes	.012		
50110	Make minor adjustments as required for operational integrity (tighten bolts, etc.)	.104		
50111	Weight capacity test hoisting equipment, up to 15 ton capacity (bridge, trolley, chain, jib, A-frame or monorail) at 150% rated capacity	.594		
50112	Clean up work area (per 100 sq. ft.)	.051		
50113	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

**P/R M STANDARDS SHEET**

EQUIPMENT DESCRIPTION		STANDARD NO.		
HOIST, CHAIN OR WIRE ROPE; PNEUMATIC - UP TO 5 TON CAPACITY		50200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
50201	Fill out trip ticket (off base) per day	.025		
50202	Check with hoist operating personnel for any known deficiencies	.027		
50203	Operate hoist	.018		
50204	Inspect jib crane boom for damaged structural members, alignment, worn pins, column fasteners, trolley stops and capacity markings	.181		
50205	Inspect underhung hoist monorail (less than 5 ton capacity) for bent members, braces, stops, capacity markings and alignment	.123		
50206	Pull hoist along rail to check for uneven rolling or other damage	.012		
50207	Inspect and lubricate trolley assembly (wheels, bearings, etc.)	.076		
50208	Inspect and lubricate hook assembly and cable (or chain) sheaves	.076		
50209	Check operation of upper and lower travel switches while raising and lowering hook. Inspect wire rope or chain and air control valve operation	.071		
50210	Lubricate motor and reduction gears. Clean exterior of motor and trolley	.022		
50211	Check operation of hoist brakes	.012		
50212	Drain airline moisture trap and check lubrication	.030		
50213	Visually and audibly check motor controller and fittings for air leaks	.059		
50214	Make minor adjustments as required for operational integrity (tighten bolts, etc.)	.104		
50215	Inspect and lubricate air hose tension reel and inspect condition of hose	.384		
50216	Drain and replace reduction gear housing oil	.131		
3 TOTAL EPS CRAFT HOURS				con.

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

HOIST, CHAIN OR WIRE ROPE; PNEUMATIC - UP TO 5 TON  
CAPACITY

STANDARD NO.

50200 con.

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
50217	Weight capacity test hoisting equipment, up to 15 ton capacity (bridge, trolley, chain, jib, A-frame or monorail) at 150% rated capacity	.594		
50218	Clean up work area (per 100 sq. ft.)	.051		
50219	Fill out maintenance record/report	.017		
3	TOTAL EPS CRAFT HOURS			

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
HOIST, CHAIN OR WIRE ROPE; ELECTRIC - UP TO 5 TON CAPACITY		50300		
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
50301	Fill out trip ticket (off base) per day	.025		
50302	Check with hoist operating personnel for any known deficiencies	.027		
50303	Operate hoist	.018		
50304	Inspect jib crane boom for damaged structural members, alignment, worn pins, column fasteners, trolley stops and capacity markings	.181		
50305	Inspect underhung hoist monorail (less than 5 ton capacity) for bent members, braces, end stops, capacity markings and alignment	.123		
50306	Pull hoist along rail to check for uneven rolling or other damage	.012		
50307	Inspect and lubricate power cable tension reel and inspect condition of cable	.378		
50308	Inspect control cabinet	.183		
50309	Check voltage and amperage when hoist is operating (requires two men)	.113		
50310	Inspect, clean and lubricate trolley assembly	.076		
50311	Clean and lubricate reduction gear bearings	.022		
50312	Drain and replace reduction gear housing oil	.131		
50313	Inspect brake mechanism of hoist (up to 5 ton capacity)	.192		
50314	Inspect and clean hook assembly and chain (or wire rope) sheaves	.076		
50315	Inspect, clean, lubricate and adjust electric hoist motor (up to 5 HP)	.072		
50316	Check pendent control for electric hoist - operation of control buttons, travel function, up and down, speed stepping, etc.	.068		
<sup>3</sup> TOTAL EPS CRAFT HOURS				con.

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
HOIST, CHAIN OR WIRE ROPES; ELECTRIC - UP TO 5 TON CAPACITY		50300 con.		
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
50317	Check upper and lower travel limit switches. Visually check wire rope or chain while hook is in motion	.055		
50318	Make minor adjustments as required	.104		
50319	Weight capacity test hoisting equipment, up to 15 ton capacity (bridge, trolley, chain, jib, A-frame or monorail) at 150% rated capacity	.594		
50320	Clean up work area(per sq. ft.)	.051		
50321	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CRANE, BRIDGE		50400		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
50401	Fill out trip ticket (off base) per day	.025		
50402	Check with crane operating personnel for any known deficiencies	.027		
50403	Inspect bridge and end trucks; check for bent and damaged structural members, loose bolts and guards and broken welds	.256		
50404	Inspect trolley; check for damaged components, loose bolts and broken welds.	.116		
50405	Inspect runway rails; check for bent rails, loose clamps and large gaps	1.740		
50406	Inspect runway rail end stops; check for damage and loose bolts	.088		
50407	Inspect crane bridge alignment and rail evenness, check rail evenness by running over rail; check alignment by running against end stops and checking position	.096		
50408	Inspect and lubricate bridge wheels and bearings	.086		
50409	Inspect and lubricate trolley wheels and bearings	.086		
50410	Inspect and lubricate bridge drive shaft, reduction gears, couplings and bearings	.280		
50411	Inspect bridge brakes	.061		
50412	Inspect trolley brakes	.071		
50413	Inspect main or auxiliary hoist holding brake solenoid; thruster or magnetic type brakes	.153		
50414	Inspect load control brake on main or auxiliary hoist	.342		
50415	Inspect auxiliary hoist load hook, block and sheaves	.190		
50416	Inspect main hoist load hook, block and sheaves	.384		
3 TOTAL EPS CRAFT HOURS				con.



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
CRANE, BRIDGE		50400 con.		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
50417	Dye penetrant inspection of hoist hook	.397		
50418	Inspect main disconnect switch, operate and check for broken or missing parts	.036		
50419	Inspect fuses and wiring	.012		
50420	Inspect bridge collectors and main (runway) conductors	.098		
50421	Inspect trolley collectors and bridge conductors	.264		
50422	Inspect control relays and coils	.071		
50423	Inspect control panel interior, includes opening double doors	.013		
50424	Inspect bridge crane bridge controller	.031		
50425	Inspect bridge crane trolley controller	.031		
50426	Inspect bridge crane hoist controller lever	.031		
50427	Inspect bridge crane bridge drive motor	.116		
50428	Inspect bridge crane trolley drive motor	.116		
50429	Inspect bridge crane main hoist motor	.116		
50430	Weight capacity test hoisting equipment, up to 15 ton capacity (bridge, trolley, chain, jib, A-frame on monorail) at 150% rated capacity	.594		
50431	Inspect for existence and condition of crane load capacity signs	.076		
50432	Clean up work area	.051		
50433	Fill out inspection record/report	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
HOIST, PORTABLE		50500	
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur 2 TOTAL
50501	Check with hoist operating personnel for any known deficiencies	.027	
50502	Operate hoist	.078	
50503	Inspect wheels	.008	
50504	Inspect hydraulic piston	.012	
50505	Check hydraulic fluid level	.005	
50506	Inspect chain and hook	.076	
50507	Visually inspect hoist frame	.123	
50508	Make minor adjustments as required	.071	
50509	Fill out maintenance record/report	.017	
3 TOTAL EPS CRAFT HOURS			

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

COFFEE MAKER/URNS

STANDARD NO.

55100

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55101	Check thermostat and temperature gauge on coffee urn/maker. Calibrate if required	.352		
55102	Check pilots and flame on gas operated makers/urns	.029		
55103	Check working pressure on steam operated unit	.004		
55104	Check electrical connections and wiring for defects. Tighten connections	.092		
55105	Check for clogged or defective steam trap	.077		
55106	Inspect and clean steam strainer	.159		
55107	Examine equipment, valves, and piping for leaks	.059		
55108	Inspect urns/coffee maker for leaks at water gauge glasses and at valves. Repack valves if necessary	.035		
55109	Tighten or replace loose, missing, or damaged nuts, bolts, or screws	.004		
55110	Lubricate water filter valve, check "O" rings, tighten as required	.025		
55111	Check operation of lights	.021		
55112	Check timer mechanism and operation of urn	.014		
55113	Check operation of on/off switch	.006		
55114	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BROILER/OVEN (SALAMANDER)		55125		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55126	Check with operating personnel for any known deficiencies	.034		
55127	Check broiler pilot and adjust if required. Check for uniform flame	.064		
55128	Check oven pilot and adjust if required. Check for uniform flame	.064		
55129	Check piping and valves for leaks	.059		
55130	Check doors for warping, alignment, and seals	.005		
55131	Check electrical connections and wiring for defects, tighten loose connections	.185		
55132	Inspect shelves for defects and level if required	.109		
55133	Tighten and replace any loose nuts, bolts, screws	.009		
55134	Check thermocouple, remove grease and carbon	.159		
55135	Check operation of broiler arm, move up and down, adjust as required	.005		
55136	Check calibration of thermostat	.338		
55137	Fill out maintenance record/report	.017		
TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

OVEN, CONVECTION

STANDARD NO.

55150

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55151	Check doors for warping and alignment	.005		
55152	Check piping and valves for leaks	.059		
55153	Tighten and replace any loose nuts, bolts, or screws	.004		
55154	Check pilot and adjust if required. Check gas burner for uniform flame	.064		
55155	Check element, switches, controls and wiring on electrically heated units for defects	.092		
55156	Remove access panel, check fan blades and fan motor	.092		
55157	Check seals around doors, lubricate hinges (3)	.016		
55158	Check calibration of thermostat	.338		
55159	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DEEP FAT FRYER, AUTOMATIC CONVEYOR BELT TYPE		55175		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55176	Check with operating personnel for any known deficiencies	.034		
55177	Examine compartments, valves and piping for leaks, tighten as required	.059		
55178	Check pilot and flame on gas operated deep fat fryers	.011		
55179	Open and close access panels	.118		
55180	Check elements, switches, controls, contacts and wiring on electrically heated units for defects	.039		
55181	Check thermostats, calibrate if necessary	.338		
55182	Check cooking oil filter on circulating system, change as required	.052		
55183	Check motor for excessive noise and overheating	.017		
55184	Check operation and condition of blower micro-switch	.008		
55185	Check operation of belt hoist	.004		
55186	Lubricate belt hoist	.014		
55187	Check belt alignment and tension, adjust as required	.022		
55188	Tighten or replace loose, missing or damaged nuts, bolts or screws	.013		
55189	Check operation of unit after PM	.126		
55190	Clean machine thoroughly of dust, grease, and food particles	.034		
55191	Clean up area around unit (per 100 sq. ft.)	.051		
55192	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DEEP FAT FRYER, CONVENTIONAL TYPE		55200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55201	Clean machine thoroughly of dust, grease, and food particles	.011		
55202	Examine compartments, valves, and piping for leaks	.059		
55203	Check pilot and flame on gas operated deep fat fryer	.004		
55204	Check thermostat with thermometer, calibrate if necessary	.338		
55205	On electrically heated units check elements, switches, controls, contacts, and wiring for defects	.019		
55206	Check basket or rack for bends or defects. Straighten bends when necessary	.010		
55207	Tighten or replace loose, missing, or damaged nuts, bolts, or screws	.004		
55208	Fill inspection report, check off card and/or tag	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DEEP FAT FRYER, PRESSURIZED - BROASTER		55225		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55226	Check with operating personnel for any known deficiencies	.034		
55227	Open and close access panels	.037		
55228	Check piping and valves for leaks, tighten fittings as required	.059		
55229	Check pilot and flame on gas operated unit	.007		
55230	Check elements, switches, controls, contacts, and wiring on electrically heated units	.019		
55231	Check thermostat, calibrate, if necessary	.338		
55232	Check basket/racks for bends, breaks or defects, straighten bends when necessary	.010		
55233	Check cooking oil filter on circulating system, change as required	.052		
55234	Check operation of unit	.126		
55235	Check motor for excessive noise and overheating	.017		
55236	Tighten or replace loose missing or damaged nuts, bolts, or screws	.004		
55237	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FOOD WARMER, ELECTRIC		55325		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55326	Check with operating personnel for any known deficiencies	.034		
55327	Turn main power supply on/off	.006		
55328	Remove and reinstall access panel on kitchen equipment (4 screws/nuts per panel)	.037		
55329	Check electrical connections, wiring and condition of heating elements	.924		
55330	Check electrical connections, wiring in breaker box, tighten connections	.139		
55331	Check connections, wiring for defects in control box, tighten connections	.092		
55332	Check calibration of thermostats starting from off to high specific temperature (use of pyrometer to check) adjust as required	.352		
55333	Check operation of control panel lights	.021		
55334	Check main power plug, tighten connections	.277		
55335	Tighten or replace loose, missing or damaged nuts, bolts or screws	.004		
55336	Clean unit thoroughly of dust, grease and food particles	.011		
55337	Fill out inspection report, check off card and/or tag	.017		
3 TOTAL EPS CRAFT HOURS				

# **P/R M STANDARDS SHEET**

EQUIPMENT DESCRIPTION		STANDARD NO.		
FOOD SLICER		55350		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55351	Clean machine thoroughly of dust, grease, and food particles	.011		
55352	Tighten or replace loose, missing or damaged nuts, bolts, or screws	.004		
55353	Lubricate food slicer as required. Use mineral oil on parts that come in contact with food	.023		
55354	Check condition of blade, blade guard, guides, and controls	.012		
55355	Check motor and motor bearings for overheating by hand touch	.030		
55356	Adjust blade, motor or carriage	.024		
55357	Check lubricant in gear case, add as required	.042		
55358	Check sharpening stones, remove old and install new as required (per 2 each)	.010		
55359	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BRAISING PAN, TILTING		55375		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55376	Check with operating personnel for any known deficiencies	.034		
55377	Check electric transformer, insulators, connections and wiring; tighten connections (includes access panels)	.092		
55378	Check electric heat elements, connections, and wiring, tighten connections (includes access panels)	.092		
55379	Check surface temperature with meter for hot spots	.056		
55380	Check piping and valves on gas operated units for leaks	.059		
55381	Check pilot/igniter, burner - combustion chamber for proper operation, adjust as required	.061		
55382	Check temperature control system for proper operation, adjust as required	.352		
55383	Lubricate tilting gear mechanism and trunion bearings	.036		
55384	Tighten or replace any loose nuts, bolts, screws, replace broken knobs	.005		
55385	Check operation of unit after PM. Insure automatic cut off is operative; if so equipped	.042		
55386	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FOOD SAW		55400		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55401	Inspect saw blade, blade protector, and blade clearance; reset guards if required	.026		
55402	Test saw in operation, check for vibration; adjust blade tension if required	.047		
55403	Check motor and bearings for overheating by hand touch	.030		
55404	Check switches and controls for damage and proper operation	.011		
55405	Clean machine thoroughly of dust, grease, and food particles	.011		
55406	Lubricate as required. Use mineral oil on parts that come in contact with food	.023		
55407	Tighten or replace loose, missing, or damaged nuts, bolts, or screws	.004		
55408	Check belt. Adjust tension and/or pulley as required	.022		
55409	Replace belt	.220		
55410	Fill inspection report, check off card and/or tag	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BROILER, HOT DOG		55425		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55426	Check with operating personnel for any known deficiencies	.034		
55427	Check electric motor, controls, wiring connections and insulation for dirty or defective materials	.092		
55428	Remove and install contacts	.009		
55429	Clean contacts	.016		
55430	Lubricate bushings	.005		
55431	Inspect tines	.005		
55432	Inspect equipment for defects	.011		
55433	Check unit for corrosion, clean and treat	.041		
55434	Wipe dirt and excess lubricant from unit	.043		
55435	Lubricate bare spots with mineral oil	.023		
55436	Check operation of unit	.063		
55437	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## EQUIPMENT DESCRIPTION

STANDARD NO.

2

3	TOTAL EPS CRAFT HOURS
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
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19	100
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92	100
93	100
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96	100
97	100
98	100
99	100
100	100

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BROILER, CONVEYOR TYPE		55475		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55476	Check with operating personnel for any known deficiencies	.034		
55477	Check broiler pilot/igniters and adjust if required	.064		
55478	Check air filter, change as required	.045		
55479	Check operation of chains and counter weights	.009		
55480	Check piping and valves for leaks	.059		
55481	Check jets for uniform flame, adjust as required	.064		
55482	Check electrical connections and wiring for defects, tighten loose connections	.092		
55483	Check operation of fire detectors (3 each)	.051		
55484	Check thermocouple, remove grease and carbon	.159		
55485	Check calibration of thermostat	.338		
55486	Tighten and replace any loose nuts, bolts, screws	.004		
55487	Check operation of unit after PM	.042		
55488	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
GRILL		55500		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
55501	Tighten or replace any loose nuts, bolts, screws. Replace broken knobs	.005		
55502	On gas operated units, check piping and valves for leaks	.059		
55503	On gas operated units, check pilot and adjust if required. Check gas burners for uniform flame.	.061		
55504	On electrically operated units, check connections and wiring. Tighten connections	.092		
55505	Turn main power supply on/off	.006		
55506	Check power plug for loose wires, tighten as required	.006		
55507	Check calibration of thermostats	.352		
55508	Fill out maintenance record/report	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
MIXER, FLOOR		55525		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
55526	Check with operating personnel for any known deficiencies	.034		
55527	Turn mixer on, allow to run and vary speed to check operation	.052		
55528	Check mixer for alignment and vibration, align if necessary	.025		
55529	Check oil level in transmission, add as required	.110		
55530	Drain and refill oil in transmission (1 qt.)	.012		
55531	Lubricate mixer - gears, bowl lift mechanism and 4 zerk fittings	.032		
55532	Check belt, adjust tension and/or pulley as required	.022		
55533	Replace belt if required	.220		
55534	Clean machine thoroughly of dust, grease and food particles	.023		
55535	Check mixer motor, switches, and controls, check motor and bearing for overheating	.030		
55536	Inspect piping and valves for leaks, if unit is equipped with water tank	.059		
55537	Insure anchor bolts are tight	.008		
55538	Tighten or replace loose, missing or damaged nuts, bolts or screws	.004		
55539	Clean and treat corrosion (per sq. ft.)	.041		
55540	Fill out maintenance record/report	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
MIXER, COUNTER		55550		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55551	Turn mixer on, allow to run, vary speed to check operation	.026		
55552	Check mixer or alignment and vibrations, align if necessary	.025		
55553	Check belt, adjust tension and/or pulley as required	.022		
55554	Replace belt	.220		
55555	Lubricate mixer	.032		
55556	Clean machine thoroughly of dust, grease, and food particles	.011		
55557	Check mixer motor, switches, and controls. Check motor and bearings for overheating	.030		
55558	If unit is equipped with water tank, inspect piping and valves for leaks	.059		
55559	Insure anchor bolts are tight	.008		
55560	Fill inspection report, check off card, and/or tag	.017		
3 TOTAL EPS CRAFT HOURS				

EQUIPMENT DESCRIPTION		STANDARD NO.		
PROOFER, AUTOMATIC		55575		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
55576	Check with operating personnel for any known deficiencies	.034		
55577	Check electric motor, controls, wiring connections and insulation for dirty or defective materials	.185		
55578	Check motor and motor bearings for overheating by hand touch	.030		
55579	Check belt tension and adjust as required	.022		
55580	Check chain drive operation, alignment, tension and check for defects	.024		
55581	Check main conveyor by test operation	.075		
55582	Check action of flour sifter mechanism and connecting linkage	.024		
55583	Check roller conveyor and connecting drive mechanism	.012		
55584	Check door latch	.011		
55585	Lubricate conveyor, drive and flour sifting actuating mechanism bushings	.210		
55586	Lubricate chain drive	.013		
55587	Wipe off excess grease and oil	.009		
55588	Tighten or replace loose, missing or damaged nuts, bolts or screws	.022		
55589	Check for rust, corrosion and treat	.041		
55590	Lubricate bare spots with mineral oil	.023		
55591	Check operation of unit after PM	.084		
55592	Fill out maintenance record/report	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
OVEN, ROTARY		55600		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55601	Remove and reinstall access panel; lubricate main bearing bushings	.049		
55602	Turn motor on and check operation of chain drive mechanism; lubricate chain	.049		
55603	Inspect motor and wiring. Sensory inspect motor and bearings for overheating; lubricate motor bearings	.042		
55604	Check V-belt; adjust tension and/or pulley as required	.022		
55605	Replace V-belt	.220		
55606	Inspect shelves for defects and level if required	.109		
55607	Tighten or replace any loose nuts, bolts, screws	.004		
55608	Check piping and valves for leaks	.059		
55609	Check pilot and adjust if required; check gas burner for uniform flame	.064		
55610	Check thermostat with thermometer. Calibrate if required	.338		
55611	Check operation of stop and reverse switch	.006		
55612	Check timer mechanism and operation	.014		
55613	Check lubricant in gear case, add as required	.042		
55614	Check ventilator for proper operation	.123		
55615	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
KETTLE, STEAM; TILT		55625		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55626	Check with operating personnel for any known deficiencies	.034		
55627	Check operation of steam supply line safety relief valve, pressure gauge, drain off valve, replace handles and "O" rings when required	.085		
55628	Check piping for leaks, tighten as required	.065		
55629	Check and clean steam trap, strainer and vent on direct connected steam units	.235		
55630	Check operation of electric water valve, change fuse as required	.023		
55631	Inspect cover, hinges, seals on units so equipped, lubricate hinge	.041		
55632	Lubricate tilting gear mechanism and trunion bearings	.036		
55633	Tighten or replace loose, missing, or damaged nuts, bolts, or screws	.004		
55634	Check operation of unit after PM	.084		
55635	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
KETTLE, STEAM; FIXED		55650		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
55651	Check steam kettle for proper operation	.063		
55652	Check operation of pressure regulating valve, pressure gauge, safety valve, and drain valve. Replace hand wheels and "O" rings when necessary	.084		
55653	Inspect cover and hinges on units so equipped. Lubricate hinge.	.041		
55654	Check piping for leaks and damage. Tighten fittings to stop steam leaks if required	.065		
55655	On direct connected steam units, check and clean steam trap and strainer	.235		
55656	On gas burner operated self contained units, check pilot and flame	.065		
55657	Fill inspection report, check off card and/or tag	.017		
TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DISPENSER, CARBONATED BEVERAGE		55675		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55676	Check with operating personnel for any known deficiencies	.034		
55677	Check feed lines and valves for leaks	.059		
55678	Remove access panel	.037		
55679	Check interior connections and lines for leaks	.059		
55680	Check pressure gauges, adjust as required	.014		
55681	Check and clean water strainer screen on carbonator	.101		
55682	Check for rust, corrosion	.021		
55683	Check wiring, connectors and switches	.092		
55684	Tighten or replace, loose, missing or damaged nuts, bolts	.004		
55685	Wipe dust, dirt from unit	.043		
55686	Fill out inspection report, check off card and/or tag (per each)	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
STEAM TABLE		55700		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55701	Inspect water compartment, steam coil, valves, and piping for leaks	.090		
55702	On direct connected steam units, check and clean steam trap and strainer	.235		
55703	On direct connected steam units, check operation of pressure regulating valve and gauge	.027		
55704	On gas burner operated units, check pilots and flame	.065		
55705	On electrically operated units, check insulators, connections, and wiring; tighten connections	.092		
55706	Check condition of covers and receptacles	.019		
55707	Check thermostat and temperature gauge, calibrate thermostat if necessary	.117		
55708	Fill inspection report, check off card and/or tag	.017		
3 TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DOUGH ROLLER		55725		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55726	Check with operating personnel for any known deficiencies	.034		
55727	Check electric motor, controls, wiring, connections and insulation for dirty or defective materials	.185		
55728	Check motor and bearing for overheating by hand touch	.030		
55729	Check belt tension and adjust as required	.022		
55730	Remove old and install new V-belt	.220		
55731	Inspect and lubricate chain drive assembly	.123		
55732	Check operation of conveyor-roller clearance and adjust as necessary	.054		
55733	Lubricate conveyor drive bushings and chain drive	.042		
55734	Inspect and lubricate wheels and mountings	.088		
55735	Check and treat for rust and/or corrosion	.041		
55736	Cover bare spots with mineral oil	.023		
55737	Tighten or replace loose, missing or damaged nuts, bolts and screws	.004		
55738	Check operation of unit after PM	.084		
55739	Wipe off excess grease and oil from unit	.009		
55740	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
TOASTER, ROTARY		55750		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55751	Check operation of toaster by toasting sample slice of bread	.026		
55752	Clean toaster	.011		
55753	On gas operated units, check valves and piping for leaks	.059		
55754	On gas operated units, check pilot light and burner flame; adjust when required	.013		
55755	On electrically operated units, check heating elements	.011		
55756	Check electric insulators, connections, and wiring - includes removing access panel	.092		
55757	Inspect alignment of baskets and conveyor chains; align if necessary	.018		
55758	Lubricate chain	.016		
55759	Check motor and motor bearings for overheating by hand touch	.030		
55760	Tighten or replace loose, missing or damaged nuts, bolts, screws	.004		
55761	Lubricate motor (2 oil holes)	.036		
55762	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
COOKIE MAKER		55775		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55776	Check with operating personnel for any known deficiencies	.034		
55777	Check electrical panel switches, connections timing device for loose, frayed wiring, tighten connections as required	.092		
55778	Check electric motor and bearings for overheating by hand touch	.030		
55779	Lubricate motor	.036		
55780	Check "V" belt, adjust tension as required	.022		
55781	Replace "V" belt	.220		
55782	Check conveyor and rollers by observing movement, adjust as required	.054		
55783	Lubricate rollers	.044		
55784	Tighten or replace loose, missing or damaged nuts, bolts or screws	.009		
55785	Wipe off excess grease and oil	.074		
55786	Check operation of unit after PM	.042		
55787	Fill out inspection report, check off card and/or tag	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
PEELER, VEGETABLE		55800		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55801	Check vegetable for proper operation - includes removing and installing access panel	.079		
55802	Check motor and motor bearings for overheating by hand touch	.030		
55803	Check switches and controls for damage and proper operation	.011		
55804	Lubricate vegetable peeler by lubricating bushings and filling grease cup	.048		
55805	Check door for loose hinges and latch fittings; adjust if required	.005		
55806	Clean peeler thoroughly of dust, grease, and food particles	.011		
55807	Check piping and valves for leaks	.059		
55808	Inspect abrasive disk	.014		
55809	Tighten or replace loose, missing or damaged nuts, bolts, screws	.004		
55810	Check belt for proper tension and alignment, adjust or replace as required	.022		
55811	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
PIE MAKER		55825		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55826	Check with operating personnel for any known deficiencies	.034		
55827	Check electrical system for loose connections and frayed wiring, tighten connections as required	.092		
55828	Check motors and bearings for overheating by hand touch	.059		
55829	Lubricate motors	.071		
55830	Check "V" belt, adjust tension as required	.045		
55831	Replace "V" belt	.220		
55832	Check chain and sprocket for wear	.025		
55833	Lubricate chain drive and chain	.042		
55834	Tighten or replace loose, missing, or damaged nuts, bolts or screws	.004		
55835	Wipe off excess grease and oil	.074		
55836	Check operation of unit after PM	.042		
55837	Fill out inspection report, check off card and/or tag	.017		
3 TOTAL EPS CRAFT HOURS				

# **P/R M STANDARDS SHEET**

EQUIPMENT DESCRIPTION		STANDARD NO.		
STEAMER, VEGETABLE		55850		
Applicable to direct connected steam units only.				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55851	Examine doors and door gaskets	.016		
55852	Visually inspect hinges and latches; lubricate hinges	.070		
55853	Tighten or replace loose, missing, or damaged nuts, bolts, screws	.004		
55854	Check for clogged or defective steam trap; clean trap	.075		
55855	Inspect and clean steam strainer	.159		
55856	Check working pressure on steam gauge	.004		
55857	Turn unit on, allow pressure to build, inspect piping, valves, and doors for leaks	.059		
55858	Check operation of pressure relief valve	.008		
55859	Check operation of low water cut off	.023		
55860	Check water level in sight glass	.005		
55861	Check timer mechanism and operation	.014		
55862	Fill out maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
ICE MACHINE, FLAKE OR CUBE		55875		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55876	Check with operating personnel for any known deficiencies.	.027		
55877	Check operation of unit before maintenance.	.021		
55878	Remove and install access panel.	.034		
55879	Check automatic controls and safety devices for proper operation.	.072		
55880	Check ice cutting/flaking mechanism for proper operation.	.048		
55881	Turn power off and on.	.006		
55882	Check belt tension and adjust as required.	.022		
55883	Replace V-belt.	.220		
55884	Check motor and motor bearings for overheating by hand tool.	.030		
55885	Lubricate motor bearings.	.006		
55886	Lubricate all moving parts and pivot points other than motor bearings.	.018		
55887	Visually check for refrigerant, oil or water leaks; check compressor seal.	.017		
55888	Check controls and valves for proper operation.	.092		
55889	Turn water off and on.	.005		
55890	Visually inspect in-line water filter--remove and install as required.	.007		
55891	Check and clear ice machine draining system (drain vent and trap).	.152		
55892	Clean motor and compressor units--wipe, brush and air blast.	.114		
55893	Check for rust and corrosion and treat (per 2 sq. ft.).	.041		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

55875

FLAKE/CUBE ICE MACHINE--(LOCATED IN GALLEY)--GENERAL  
(Continued)

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
55894	Visually check and install proper identification tag on unit if missing.	.014		
55895	Check and tighten any loose screw-type electrical connections.	.003		
55896	Tighten or replace loose, missing or damaged hard-ware (bolts, nuts, screws, etc.).	.004		
55897	Inspect door(s) hinges, gaskets handles—lubricate as requested.	.041		
55898	Check operation of unit after PM.	.038		
55899	Report deficiencies for corrective action.	.007		
55900	Fill out maintenance report/check off card.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DOUGH DIVIDER		55925		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55926	Check with operating personnel for any known deficiencies	.034		
55927	Check electric insulators, connectors and wiring and tighten connections	.092		
55928	Check motor and motor bearings for overheating by hand touch	.030		
55929	Lubricate dough divider, linkage, conveyor and bushings	.168		
55930	Lubricate drive gear	.014		
55931	Inspect drive gear	.025		
55932	Check belt tension and adjust as required	.022		
55933	Replace V-belt	.220		
55934	Wipe off excess grease and oil	.009		
55935	Tighten or replace loose, missing or damaged nuts, bolts, or screws	.022		
55936	Check for rust or corrosion and treat	.041		
55937	Lubricate bare spots with mineral oil	.023		
55938	Check operation of unit after PM	.126		
55939	Fill out inspection record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
HOOD AND BLOWER, GAYLORD		55950		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
55951	Check with operating personnel for any known deficiencies	.034		
55952	Check unit for proper operation prior to maintenance	.012		
55953	Check operation of spray nozzles for spray coverage and drainage	.017		
55954	Inspect soap and spray solution feeder lines	.005		
55955	Check switches and controls for damage and proper operation	.005		
55956	Check condition of covers and receptacles	.005		
55957	Check thermostat and temperature gauge, calibrate if necessary	.003		
55958	Check components for automatic cleaning system and automatic fire protection system - solenoid valve, line strainer, shut-off valve, detergent tank, etc.	.042		
55959	Clean spray nozzles	.849		
55960	Clean interior of hood with de-greasing agent	.136		
55961	Tighten or replace loose, missing or damaged nuts, bolts or screws	.004		
55962	Visually check operation of exhaust blower on roof	.014		
55963	Inspect blades on blower for debris	.005		
55964	Check blower fan belts for frays and breaks	.022		
55965	Lubricate bearings of exhaust blower motor	.002		
55966	Fill in maintenance record/report	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
WASHER, DOMESTIC LAUNDRY		57100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
57101	Slide washer away from wall and back again.	.040		
57102	Disconnect and reconnect electrically by removing plug from wall receptacle and reinserting.	.004		
57103	Check electrical connections and wiring for defects. Tighten loose connections.	.092		
57104	Remove and replace screws from back panel.	.018		
57105	Check alignment of basket.	.011		
57106	Remove and install back panel.	.017		
57107	Check valves, hoses, and piping for leaks.	.005		
57108	Tighten or replace loose, missing or damaged bolts, nuts, or screws.	.004		
57109	Check V belt for wear, tension and alignment. Change/adjust belt as necessary.	.022		
57110	Lubricate bearings.	.036		
57111	Check motor and bearings for overheating by hand touch.	.030		
57112	Check door for warping and alignment.	.005		
57113	Check operation.	.083		
57114	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
DRYER, DOMESTIC LAUNDRY		57200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
57201	Move unit away from wall and back again.	.040		
57202	Disconnect and reconnect electrically by removing plug from wall receptacle and reinserting.	.004		
57203	Check electrical connections and wiring.	.092		
57204	Remove and replace screws from back panel.	.018		
57205	Remove and install back panel.	.017		
57206	Check alignment of basket.	.011		
57207	Adjust bearings.	.008		
57208	Lubricate bearings.	.036		
57209	Clean belt and pulley.	.016		
57210	Check operation.	.083		
57211	Check door for warping and alignment.	.005		
57212	Check vent duct.	.001		
57213	Check motor and bearings for overheating by touch.	.030		
57214	Fill out maintenance report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FURNITURE, RESTROOM/BATHROOM		60100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
60101	Check operation of urinals; inspect for missing and/or damaged parts; adjust water flow if required	.006		
60102	Check operation of toilets and inspect for missing or damaged parts; adjust flow if required	.007		
60103	Check operation of sinks/washbasins and inspect for missing or damaged parts; check for leaking faucets and valves; replace washers as necessary	.024		
60104	Replace vacuum breaker on flushometer type toilets or urinals and adjust flow if necessary	.080		
60105	Check toilet tank for proper fill up and/or leaking flush valve. Replace flush ball if required	.026		
60106	Check operation of showers; check for damaged, missing or leaking shower heads; replace shower head if required	.039		
60107	Fill inspection report, check off card and/or tag	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FRESH WATER DISTRIBUTION - PUMPING STATION		61100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
61101	Fill out trip ticket (off base pass) daily.	.024		
61102	Obtain tools from truck and aside to truck.	.026		
61103	Unlock and gain access to pumping station with key.	.011		
61104	Visually check the condition and security of pumping station area equipment, tower storage tank, pneumatic pressure tanks and reservoirs.	.375		
61105	Visually check pumping station fittings, valves and piping for leaks.	.059		
61106	Tighten packing glands or joints as required in pumping station.	.047		
61107	Check pumping station pumps for proper operation and sequencing.	.191		
61108	Operate pumping station pumps to monitor operation.	.500		
61109	Check pumping station sump pump for proper operation.	1.178		
61110	Check pumping station pneumatic tank pressure and water level adjusting floats as required.	.353		
61111	Cycle pumping station air compressor through sequence to check operation.	.025		
61112	Check condition of "V" belts on compressor and diesel motor at pumping station.	.067		
61113	Check oil level in compressor and diesel motor at pumping station and add oil as needed.	.014		
61114	Check pumping station reservoirs for proper level and automatic float operated filling valves for proper operation.	.214		
1 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
FRESH WATER DISTRIBUTION - PUMPING STATION (Continued)		61100	
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<input type="checkbox"/> 1 Occur <input type="checkbox"/> 2 TOTAL
61115	Visually inspect gas/diesel motor at pumping station.	.123	
61116	Test run and inspect operation of gas/diesel motor at pumping station.	.030	
61117	Inspect controls, floats and cables in tower storage tank at pumping station.	.092	
61118	Clean up leaks marker cam in tower storage tank at pumping station.	.075	
61119	Adjust cable and sheave of tower storage tank at pumping station.	.092	
61120	Lubricate tower storage tank controls, cables, floats and cam at pumping station.	.020	
61121	Clean corrosion and spray primer coat on pump at pumping station.	.081	
61122	Inspect pump shaft sleeves, couplings and foundation bolts at pumping station.	.123	
61123	Lubricate pump bearings with grease gun at pumping station.	.071	
61124	Tighten packing gland nuts at pumping station.	.047	
61125	Repack pumps at pumping station.	.071	
61126	Lubricate pumping station electric motors with grease gun.	.071	
61127	Check pumping station battery water level and clean and grease terminals.	.024	
61128	Test pumps in pumping station after tightening or repacking.	.191	
61129	Check pumping station altitude valve for proper operation.	.023	
<b>3 TOTAL EPS CRAFT HOURS</b>			

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
FRESH WATER DISTRIBUTION - PUMPING STATION (Continued)		61100	
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur
61130	Open and unclog drains in pumping station.	.777	
61131	Fill out pumping station log, inspection report and discrepancy report.	.050	
2 TOTAL EPS CRAFT HOURS			



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FRESH WATER DISTRIBUTION - CHLORINATOR		61150		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
61151	Check with operating personnel for any obvious discrepancies.	.027		
61152	Get and put on safety equipment for work with chlorine: goggles, apron, gloves and respirator.	.011		
61153	Clean scale buildup from sight glass of residual analyzer.	.098		
61154	Clean filter element of residual analyzer.	.076		
61155	Repack residual analyzer.	.254		
61156	Check chlorine and CO2 lines and connections for leaks or wear.	.059		
61157	Clean chlorinator and check for leaks.	.044		
61158	Check chlorinator accessories carrying chlorine for proper operation.	.044		
61159	Inspect and clean chlorinator valves.	.318		
61160	Inspect CO2 pressure regulator.	.023		
61161	Inspect chlorine pressure.	.023		
61162	Check water trap for proper level and bleed air.	.013		
61163	Check and clean water strainers.	.519		
61164	Lubricate chlorinator with graphite.	.018		
61165	Check chlorinator auxilliary cylinder valve packing and adjust valve stem.	.255		
61166	Test chlorine detector.	.034		
61167	Check first aid equipment.	.007		
61168	Inspect fusible plug in chlorine container.	.047		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

61150

FRESH WATER DISTRIBUTION - CHLORINATOR

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
61169	Make minor adjustments to chlorinators as needed.	.072		
61170	Fill out inspection report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

61175

FRESH WATER DISTRIBUTION - FLUORIDE SATURATOR

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
61176	Check with operating personnel for any obvious discrepancies.	.027		
61177	Get and put on safety equipment for working with fluoride: goggles, apron, gloves and respirator.	.011		
61178	Disconnect and connect power cord.	.004		
61179	Check oil level in gearbox, agitator and injector pump and add oil as required.	.014		
61180	Remove and install pump on fluoride saturator.	.683		
61181	Check water level in fluoride mixing tank.	.005		
61182	Disconnect liquid level switch and solenoid connector, inspect and connect.	.006		
61183	Remove saturator cover and install.	.027		
61184	Clean fluoride tank with brush and detergent.	.065		
61185	Check operation of fluoride flow regulator.	.023		
61186	Check operation of float switch and solenoid.	.075		
61187	Check saturator for leaks.	.059		
61188	Inspect fire extinguisher for condition and date of inspection.	.097		
61189	Prepare daily water sample for delivery to lab.	.061		
61190	Change daily water monitor chart.	.005		
61191	Fill out inspection log.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FRESH WATER DISTRIBUTION - STORAGE TANK		61200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
61201	Walk around exterior of elevated tank and inspect for leaks or damage.	.041		
61202	Inspection of underground tank covers, ground drainage slope, and vent screens.	.033		
61203	Inspect tank surface for corrosion and prime and paint as needed.	.244		
61204	Inspect condition of ladders and tighten or replace missing hardware.	.068		
61205	Check condition of roof and remove trash.	.112		
61206	Operate elevated tank heat system and inspect insulation and coils.	.082		
61207	Inspect sway bracing hardware and tighten as needed.	.120		
61208	Clean and inspect structural forms and paint as needed.	.291		
61209	Inspect tank base and base plates.	.075		
61210	Check for deterioration of tank foundation and patch as needed.	.059		
61211	Inspect condition of locks on roof hatches.	.001		
61212	Tighten and lubricate altitude valve and inspect valve vault.	.030		
61213	Inspect storage tank lighting and replace bulbs as needed.	.093		
61214	Check cathodic protection system on tank.	.094		
61215	Inspect and calibrate tank gauges.	.444		
61216	Patch leaks as needed and note large discrepancies to be repaired.	.064		
61217	Clean up around tank area.	.103		
61218	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FRESH WATER DISTRIBUTION - CHLORINE DETECTOR		61225		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
61226	Push button to test alarm.	.008		
61227	Test detector with chlorine test kit.	.034		
61228	Check drip rate in glass.	.005		
61229	Flush sensor unit with fresh water.	.028		
61230	Check reservoir level in sight glass.	.005		
61231	Drain and fill reservoir.	.004		
61232	Check basket for cracked or worn areas.	.045		
61233	Check two O rings and replace as required.	.022		
61234	Inspect sensor mounting grommet.	.001		
61235	Inspect fan wiring.	.092		
61236	Inspect sensor wiring.	.092		
61237	Inspect drain tube connection.	.016		
61238	Check detector mounting bolts.	.004		
61239	Check charcoal filter cartridge and replace as needed.	.007		
61240	Check to see that fan blade turns freely.	.002		
61241	Check detector for leaks under pressure.	.059		
61242	Fill out inspection log.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

FRESH WATER DISTRIBUTION - PM AND CALIBRATE METER

STANDARD NO.  
61250

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
61251	Locate meter and set out traffic safety cones.	.042		
61252	Unlock meter pit and remove and replace covers.	.179		
61253	Unroll hoses; hook-up to truck and meter and later unhook and roll up.	.101		
61254	Inspect meter for leaks and corrosion.	.041		
61255	Inspect meter cases for broken glass.	.008		
61256	Clean out trash or sludge from bottom of pit.	.127		
61257	Exercise water valve with valve key.	.013		
61258	Open and shut off water main.	.008		
61259	Read and record three meter readings.	.170		
61260	Check meter operation for unusual noise.	.026		
61261	Remove bolts and meter glass cap.	.087		
61262	Remove meter body and gasket.	.114		
61263	Replace meter body parts as required.	.006		
61264	Clean meter with abrasive powder to remove mineral buildup.	.030		
61265	Install meter body and new gasket.	.114		
61266	Hook up hose from meter to calibrated meter on truck.	.081		
61267	Open water main, check meter flow and compare.	2.873		
61268	Clean meter exterior and touch up paint as needed.	.041		
61269	Get out and put away tools.	.077		
61270	Fill out inspection report.	.083		
1	TOTAL EPS CRAFT HOURS			

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FRESH WATER DISTRIBUTION - VALVE (TYPICAL 6" DIA)		61275		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
61276	Locate water valve.	.015		
61277	Set up traffic barriers around valve pit.	.234		
61278	Remove pit covers and later replace.	.233		
61279	Exercise valve with 'T' valve key.	.038		
61280	Inspect valve for leaks, corrosion, damage, etc.	.123		
61281	Clean out trash, etc from valve pit.	.050		
61282	Remove valve nuts, cap and bushing.	.079		
61283	Inspect valve stem thread.	.005		
61284	Replace studs as required.	.207		
61285	Remove old packing and install new.	.254		
61286	Assemble and lube valve.	.059		
61287	Paint valve with bitumastic solution.	.062		
61288	Scrape and paint valve pit covers.	.320		
61289	Walk to hydrant, drain, etc. and flush through valve.	.068		
61290	Get tools from truck and put away.	.026		
61291	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FRESH WATER DISTRIBUTION - BACKFLOW PREVENTION DEVICE		61300		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
61301	Get and return extension ladder to reach overhead backflow device.	.135		
61302	Remove and install manhole cover for access to backflow device.	.117		
61303	Get water flow test set and tools.	.036		
61304	Test and calibrate check valve operation of backflow prevention device with test set and record.	.093		
61305	Disassemble and clean backflow prevention device.	.233		
61306	Replace defective check valve in backflow device.	.263		
61307	Bleed air from backflow prevention device.	.003		
61308	Tighten, adjust and lube backflow device gland.	.024		
61309	Test backflow prevention device operation.	.093		
61310	Inspect backflow prevention device for leaks under pressure.	.059		
61311	Brush backflow device with protective coating.	.021		
61312	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FRESH WATER DISTRIBUTION - FILTER PLANT		61325		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
61326	Gain access to plant with shop key.	.011		
61327	Take water sample from clear well and prepare for laboratory test.	.072		
61328	Drain, clean and inspect mixing chambers.	1.119		
61329	Drain sedimentation basins and clean with fire hose.	1.708		
61330	Inspect plant filters and sand and/or gravel. per filter	.534		
61331	Inspect clear well for cleanliness.	.014		
61332	Drain, inspect and clean flocculator.	1.847		
61333	Lubricate flocculator chain and baffle mechanism.	.076		
61334	Inspect and lubricate flocculator waste-line valves.	.049		
61335	Repair/replace flocculator baffles as needed.	.231		
61336	Inspect and adjust rate-of-flow controller.	.028		
61337	Calibrate and adjust loss-of-head gauge.	.147		
61338	Inspect clear well vent screen and manhole.	.110		
61339	Inspect plant pump operation.	.764		
61340	Inspect water mixers for proper operation.	.050		
61341	Inspect dry chemical feeder.	.094		
61342	Inspect flow measuring device operation.	.023		
61343	Check aerator nozzles for obstructions and clean as required.	.050		
61344	Clean, prime and paint surfaces as needed with underwater paint.	.242		
61345	Inspect flow direction signs and labels on pipes and repaint as needed.	.076		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
FRESH WATER DISTRIBUTION - FILTER PLANT (Continued)		61325	
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<input type="checkbox"/> Occur <input type="checkbox"/> TOTAL
61346	Inspect daily records for unusual occurrences.	.033	
61347	Clean up filter plant area after maintenance.	.257	
61348	Fill out inspection report.	.017	
TOTAL EPS CRAFT HOURS			

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
FRESH WATER DISTRIBUTION - WATER SOFTENER		61350	
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur
61351	Check with building personnel for report of water softener effectiveness.	.066	
61352	Gain access to machine room with shop key and lock up after maintenance.	.011	
61353	Test hardness of water from three valves with soap solution test.	.150	
61354	Check level of chlorine in chlorinator.	.092	
61355	Read and record figures from three water use meters at softener.	.170	
61356	Check pressure gages for proper operation.	.147	
61357	Check density of brine solution in salt tank.	.095	
61358	Check operation of float control in brine.	.031	
61359	Add salt to brine tank as needed.	.013	
61360	Read and record total water processed from meter.	.060	
61361	Inspect water softener piping, fittings and valves for leaks.	.059	
61362	Lubricate valves and motors.	.254	
61363	Make minor adjustments to water softener controls.	.011	
61364	Inspect softener base and brine tank for corrosion and repair as needed.	.199	
61365	Check operation of automatic fill valve in brine tank.	.023	
61366	Check room thermostat and calibrate as required.	.339	
61367	Fill outside storage tank with water from fill valve.	.050	
TOTAL EPS CRAFT HOURS			



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FRESH WATER DISTRIBUTION - RESERVOIR CONTROLS		61375		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	Occur	TOTAL
61376	Check with reservoir personnel for any known discrepancies.	.066		
61377	Visually inspect and clean exterior of controls cabinet.	.016		
61378	Visually inspect and clean interior of controls cabinet.	.031		
61379	Tighten all loose connections and check for frayed or damaged wiring.	.092		
61380	Inspect water level receiver at reservoir.	.148		
61381	Inspect and adjust chronoflo transmitter.	.359		
61382	Perform operational check of relays.	.204		
61383	Perform operational check of safety switches.	.017		
61384	Perform operational check of magnetic contactor.	.196		
61385	Perform load check of pump motors.	.507		
61386	Perform operational check of controls system.	.152		
61387	Clean up controls area and dispose of debris.	.051		
61388	Fill out maintenance report.	.017		
TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
PUMP, RECIPROCATING DISPLACEMENT		65100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
65101	Check with operating personnel for any known deficiencies.	.066		
65102	Check for leaks on suction and discharge piping, seals, packing glands, valves, etc.	.059		
65103	Check suction or discharge pressure gage readings and flow rate.	.172		
65104	Check and adjust belt tension and condition and replace as required.	.077		
65105	Check electrical system (motor and motor starter) for loose connections and frayed wiring; tighten or replace as required.	.092		
65106	Inspect and lubricate packing and repack as needed.	.151		
65107	Check ball valves for proper diameter; replace ball if required.	.077		
65108	Check alignment, clearances and rotation of shaft and coupler (includes remove and install safety cover).	.262		
65109	Inspect pump eccentric.	.004		
65110	Inspect shear pin and adjust as needed.	.001		
65111	Inspect pump oil drain.	.024		
65112	Check pump control valve.	.023		
65113	Check piston or plunger for proper operation.	.014		
65114	Check diaphragm for wear or damage.	.002		
65115	Change gear transmission grease.	.524		
65116	Lubricate pump and motor.	.071		
65117	Check pump and motor for rust or corrosion; scrape, wire brush and paint as required.	.081		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO. 65100		
PUMP, RECIPROCATING DISPLACEMENT				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
65118	Inspect pump and piping during operation.	.010		
65119	Clean pump and motor exterior.	.023		
65120	Clean up around pump area after maintenance.	.051		
65121	Fill out maintenance report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

PUMP, METERING (SLURRY)

STANDARD NO.

65125

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
65126	Check with operating personnel for any known discrepancies.	.027		
65127	Get and put on safety equipment for working with flouride: goggles, apron, gloves and respirator.	.011		
65128	Check oil level in pump with dipstick and add oil.	.007		
65129	Inspect belt condition and tension on pump.	.022		
65130	Flush slurry pump with fresh water.	.107		
65131	Pressure test pump.	.009		
65132	Inspect pump motor.	.030		
65133	Check pump for leaks.	.059		
65134	Fill in inspection log.	.017		
3 TOTAL EPS CRAFT HOURS				



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
PUMP, METERING (SLURRY)		65125		
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
65126	Check with operating personnel for any known discrepancies.	.027		
65127	Get and put on safety equipment for working with flouride: goggles, apron, gloves and respirator.	.011		
65128	Check oil level in pump with dipstick and add oil.	.007		
65129	Inspect belt condition and tension on pump.	.022		
65130	Flush slurry pump with fresh water.	.107		
65131	Pressure test pump.	.009		
65132	Inspect pump motor.	.030		
65133	Check pump for leaks.	.059		
65134	Fill in inspection log.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
PUMP, CENTRIFUGAL VELOCITY PUMP		65150		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
65151	Check with pump operating personnel for any obvious discrepancies.	.027		
65152	Clean exterior of pump and motor.	.023		
65153	Inspect pump and piping for leaks.	.059		
65154	Check pump and motor blocks for corrosion, prime and paint as required.	.041		
65155	Lubricate motor, pump and bearing housing.	.076		
65156	Check oil level and add oil as needed.	.007		
65157	Check pump for correct rotation.	.123		
65158	Check and adjust packing and repack as required.	.087		
65159	Check and adjust belt tension and replace belt as required.	.077		
65160	Check pump for noise, vibration or overheating.	.017		
65161	Tighten all fittings and replace damaged nuts and hardware as needed.	.004		
65162	Check and adjust float operation.	.031		
65163	Check to insure pump empties tank to a set level.	.075		
65164	Inspect motor operation.	.017		
65165	Make minor adjustments to pump as needed.	.072		
65166	Flush tank with fresh water.	.028		
65167	Clean up around pump and motor after maintenance.	.051		
65168	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
PUMP, ROTARY DISPLACEMENT		65175	
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur 2 TOTAL
65176	Check with operating personnel for obvious defects.	.027	
65177	Clean surface of pump with solvent.	.011	
65178	Run pump and check for leaks at pipes and connections.	.059	
65179	Inspect pump body for corrosion and clean, prime and paint as required.	.041	
65180	Lubricate pump.	.036	
65181	Check shaft alignment and clearances and pump rotation.	.024	
65182	Inspect packing for leaks and tighten.	.024	
65183	Replace packing in rotary pump.	.254	
65184	Check pump for excessive noise and vibration.	.017	
65185	Tighten loose connections and replace loose and missing hardware as needed.	.004	
65186	Inspect electrical system for loose connections and frayed wires.	.092	
65187	Read and record pressure gage readings and check discharge pressure.	.170	
65188	Clean up area around pump after repairs.	.051	
65189	Fill out maintenance report.	.017	
3 TOTAL EPS CRAFT HOURS			

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
PUMP, MIXED OR AXIAL FLOW VELOCITY		65200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
65201	Check with pump operating personnel for any obvious discrepancies.	.027		
65202	Clean pump exterior.	.011		
65203	Inspect pump body for corrosion and clean, prime and paint as needed.	.041		
65204	Operate pump and check for leaks.	.059		
65205	Check impeller and shaft for correct alignment and clearances.	.024		
65206	Check oil level and add oil as needed.	.007		
65207	Lubricate pump.	.036		
65208	Inspect packing for leaks and tighten as needed.	.024		
65209	Repack pump as needed.	.254		
65210	Inspect bearings for wear, damage or overheating.	.005		
65211	Inspect float operation and adjust as needed.	.075		
65212	Inspect "V" belt tension and condition.	.022		
65213	Replace "V" belts as required.	.220		
65214	Operate pump and check for excessive noise and vibration.	.017		
65215	Tighten loose and replace missing hardware.	.004		
65216	Check electrical system for frayed wires and loose connections.	.092		
65217	Clean up around pump area after maintenance.	.051		
65218	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
PUMP, TURBINE WELL		65225		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
65226	Check with pump operating personnel for any known discrepancies.	.027		
65227	Remove turbine pump from deep well and replace.	.895		
65228	Inspect pump body for corrosion and patch as needed.	.041		
65229	Check packing for leaks and tighten as needed.	.024		
65230	Repack pump as needed.	.254		
65231	Check pump shaft and impeller clearances and alignment.	.024		
65232	Adjust impeller for optimum operation.	.175		
65233	Check wear ring clearances with gauge or micrometer.	.009		
65234	Examine pump bowls, water passages and impeller for wear or pitting.	.003		
65235	Paint pump with underwater protective paint.	.199		
65236	Inspect electrical system for frayed wires or loose connections.	.092		
65237	Inspect thrust and pump bearings for wear and vibration.	.005		
65238	Lubricate pump.	.036		
65239	Inspect suction strainer for clogs or damage and clean as needed.	.260		
65240	Inspect operation of discharge valve.	.023		
65241	Check solenoid operation.	.045		
65242	Tighten loose and replace missing hardware.	.004		
65243	Run pump and check for noise and vibration.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

65225

PUMP, TURBINE WELL  
(Continued)

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
65244	Cleanup around pump area after maintenance.	.051		
65245	Fill out maintenance report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
PUMP, AIR LIFT WELL		65250		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
65251	Check with pump operating personnel for any known discrepancies.	.027		
65252	Take water sample and test for air or oil contamination.	.171		
65253	Check relief valve operation.	.023		
65254	Blow down air receiving tank.	.397		
65255	Run compressor and check operation.	.025		
65256	Lubricate compressor.	.036		
65257	Check compressor oil level and add oil as needed.	.007		
65258	Inspect and clean air intake filter.	.007		
65259	Inspect air line from compressor to pump for leaks or damage.	.021		
65260	Calibrate and adjust pressure gauge.	.147		
65261	Clean pump body.	.011		
65262	Inspect pump for corrosion and prime and paint as needed.	.041		
65263	Inspect pump electrical system for frayed wires and loose connections.	.092		
65264	Tighten loose and replace missing hardware.	.004		
65265	Clean up well area after maintenance.	.051		
65266	Fill out maintenance report.	.017		
<sup>1</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

PUMP, CENTRIFUGAL EJECTOR

STANDARD NO.

65300

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
65301	Secure sewage line and drain pump.	.071		
65302	Remove and install inspection cover.	.069		
65303	Inspect and clean pump impeller.	.223		
65304	Check impeller clearances and shaft alignment.	.024		
65305	Check for corrosion and clean and prime rusty areas.	.041		
65306	Inspect working parts for wear or deterioration.	.007		
65307	Remove old and install new gasket.	.072		
65308	Inspect and adjust packing gland.	.024		
65309	Repack gland as required.	.254		
65310	Start pump and monitor operation.	.059		
65311	Check pump bearings for noisy operation.	.017		
65312	Lubricate pump and add oil as needed.	.036		
65313	Clean up pump area after maintenance.	.051		
65314	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				



# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

PUMP, FRACTIONAL HP SUMP

STANDARD NO.

65350

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
65351	Clean out trash from sump bottom.	.050		
65352	Check electrical plug, cord and connections.	.092		
65353	Inspect float, float rod and switch.	.009		
65354	Activate float switch and check and adjust sump pump operation.	.030		
65355	Inspect pump body for corrosion and prime as required.	.041		
65356	Lubricate sump pump.	.036		
65357	Remove pump from sump and replace.	.685		
65358	Inspect packing and tighten as required.	.024		
65359	Check pump for drag or misalignment.	.123		
65360	Check pump bearings for overheating.	.030		
65361	Make minor adjustments to pump as needed.	.011		
65362	Fill out inspection report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION			STANDARD NO.	
PETROLEUM-OIL-LUBRICANT (POL) SYSTEM			66100	
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
66101	Adjust packing and lubricate gate valves. per valve	.295		
66102	Inspect and lubricate lubricated plug valves. per valve	.048		
66103	Inspect and adjust non-lubricated plug valves. per valve	.043		
66104	Inspect and adjust ball valves. per valve	.028		
66105	Check operation of automatic fueling valves. per valve	.028		
66106	Check automatic high level shutoff valve operation. per valve	.572		
66107	Check operation of combination liquid level and low level control valve. per valve	.040		
66108	Test pressure relief valves. per valve	.075		
66109	Inspect underground pipelines. per line	.066		
66110	Inspect above ground pipelines. per line	.467		
66111	Check and adjust fuel pumps. per pump	.911		
66112	Inspect and lubricate pump motors. per motor	.109		
66113	Inspect and calibrate gas pumps. per pump	.609		
66114	Calibrate meters. per meter	1.567		
66115	Calibrate pressure gages. per gage	.102		
66116	Test and inspect hoses. per hose	1.360		
3	TOTAL EPS CRAFT HOURS			

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

66100

PETROLEUM-OIL-LUBRICANT (POL) SYSTEM  
(Continued)

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<input type="checkbox"/> Occur	<input type="checkbox"/> TOTAL
66117	Inspect and repair electrical grounds. per ground	1.005		
66118	Inspect surge arrestors. per arrestor	.573		
66119	Test disconnect switches. per switch	.400		
66120	Inspect micronic filter and replace element as needed. per filter	.054		
66121	Inspect and lubricate filler couplings and caps. per coupling	.028		
66122	Inspect and grease truck fill stand swing joints. per joint	.031		
66123	Inspect and test air release eliminator. per eliminator	.394		
66124	Inspect cathodic protection system. per unit	.094		
66125	Inspect fire extinguishers. per tank	.097		
66126	Inspect signs. per station	.794		
<input type="checkbox"/> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
STAINER, FUEL, "Y" - 8" DIA TYPICAL		66150		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
66151	Shut off fuel flow to "Y" strainer - two valves.	.011		
66152	Drain off excess fuel and dump in waste disposal.	.069		
66153	Remove bolts and strainer cover.	.185		
66154	Remove strainer screen from body.	.009		
66155	Remove gasket and scrape surface with putty knife.	.070		
66156	Inspect and clean strainer screen.	.187		
66157	Install strainer screen and cover with new gasket.	.130		
66158	Install drain plug with teflon tape.	.019		
66159	Remove entire drain unit, clean and reinstall with teflon tape on threads.	.083		
66160	Clean cover and drain.	.005		
66161	Turn on fuel valves, let pressure build and check for leaks.	.059		
66162	Check condition of signs and safety notices.	.183		
66163	Inspect fire extinguisher condition and date of service.	.097		
66164	Inspect condition of area around strainer.	.003		
66165	Inspect electrical grounds at strainer.	.203		
66166	Fill out inspection report.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
STRAINER, FUEL, BASKET - 8" DIA. TYPICAL		66175		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
66176	Shut off fuel flow to strainer - two valves.	.011		
66177	Remove bolts from strainer cover.	.164		
66178	Remove strainer cover and gasket.	.039		
66179	Remove strainer basket.	.012		
66180	Clean debris from housing and strainer basket.	.289		
66181	Install strainer basket.	.009		
66182	Install strainer cover with new gasket and bolts.	.192		
66183	Open fuel valves, let pressure build and check for leaks.	.059		
66184	Check oil level in pumps and add as required.	.014		
66185	Inspect signs and safety notices.	.183		
66186	Inspect condition of fire extinguisher and date of inspection.	.097		
66187	Inspect condition of general area around strainer.	.003		
66188	Inspect electrical grounds.	.203		
66189	Fill out inspection report.	.017		
TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO. 66200		
TANK, FUEL STORAGE, ABOVE AND BELOW GROUND				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	Occur	TOTAL
66201	Inspect above ground tanks for corrosion and prime and paint as needed.	.441		
66202	Inspect above ground tank floating roof, lifter or cone and automatic float gage.	.179		
66203	Inspect above ground fuel tank fire protection.	.017		
66204	Inspect above ground fuel storage tank dikes for erosion 10 feet	.003		
66205	Inspect non-freeze draw valves.	.046		
66206	Clean tank interior.	.621		
66207	Inspect storage tank vacuum and pressure vents. per vent	.069		
66208	Inspect vapor recovery tank for deterioration.	.063		
66209	Inspect above ground horizontal cylindrical tank.	.148		
66210	Inspect below ground cylindrical tank.	.134		
66211	Calibrate and adjust fuel tank pressure. per gage	.147		
66212	Run pump and check operation. per pump	.061		
66213	Inspect fuel strainer and replace as needed.	.319		
66214	Inspect tank electrical grounds for breaks or loose fittings.	.994		
66215	Inspect interior of cylindrical tank.	.025		
66216	Inspect underground tank pressure vessel.	.021		
66217	Inspect underground tank concrete for breakage or deterioration.	.020		
66218	Inspect liquid level gage for proper operation.	.147		
66219	Fill out maintenance report.	.017		
TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
FUEL/WATER SEPARATOR		66225		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
66226	Inspect unit while fuel is flowing for excess noise or leaks and adjust or tighten as needed.	.059		
66227	Remove and install separator from fuel lines as needed.	3.433		
66228	Inspect condition of filter, filter material, or cartridges.	.010		
66229	Inspect two fuel strainers for damage or blockage.	.376		
66230	Check pressure gauge and adjust as needed.	.147		
66231	Check selector valve operations.	.025		
66232	Inspect high level control auxiliary valve for proper operation.	.341		
66233	Inspect high level discharge control valve.	.516		
66234	Check operation of debris blowdown valve.	.364		
66235	Inspect pilot valve assembly.	.149		
66236	Inspect sight gage and clean if needed.	.062		
66237	Inspect operation of power control water drain valve.	.483		
66238	Inspect float and solenoid operation and adjust as needed.	.013		
66239	Test operation of gate valve.	.542		
66240	Check operation of liquid level gage.	.147		
66241	Inspect operation of gage valve.	.159		
66242	Clean up area around separator after maintenance.	.051		
66243	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.	
CLARIFIER SEWAGE DISPOSAL PLANT		70100	
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur <sup>2</sup> TOTAL
70101	Check chain and sprocket for wear.	.025	
70102	Grease skimmer (scraper) drive gear.	.115	
70103	Check oil level in gear box; add oil if low.	.027	
70104	Change oil in gear box.	.524	
70105	Check for rust or corrosion; scrape, wire brush and paint (2 sq ft average).	.081	
70106	Fill out inspection report, check off card and/or tag.	.017	
<sup>3</sup> TOTAL EPS CRAFT HOURS			



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
BARMINUTORS - SEWAGE DISPOSAL PLANT		70125		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
70126	Check condition and clearance of cutting knives and inspect base seal.	.167		
70127	Check oil level in gear box; add if low.	.027		
70128	Change oil in gear box.	.524		
70129	Wire brush and grease directional flow valve stem.	.046		
70130	Check for rust and corrosion; scrape, wire brush, and spot paint (2 sq ft average).	.081		
70131	Fill out inspection report, check off card and/or tag.	.017		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO. 70150		
MOTOR CONTROL CENTER - SEWAGE LIFT STATION				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
70151	Gain access to lift station.	.011		
70152	Drain treated water tank to test controls.	.503		
70153	Inspect circuit breaker cabinet. per cabinet	.072		
70154	Clean circuit breaker cabinet. per cabinet	.002		
70155	Check cabinet for loose and missing hardware and repair. per cabinet	.004		
70156	Inspect electrical circuits and connections. per cabinet	.092		
70157	Inspect and clean motor control contactors. per box	.138		
70158	Inspect pressure switch operation. per switch	.101		
70159	Check voltage at motor panel. per panel	.079		
70160	Check motor while operating for excess noise or vibration. per motor	.017		
70161	Check motor oil and add as needed. per motor	.007		
70162	Lubricate station motor. per motor	.036		
70163	Get, use and aside extension ladder as needed.	.135		
70164	Inspect motor control center lighting.	.014		
70165	Inspect center fire extinguisher for condition and date of inspection.	.097		
70166	Clean up center after maintenance.	.051		
70167	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
SEWAGE PUMPING STATION, DRYWELL		70200		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
70201	Unlock padlock on gate, open gate and later close and lock.	.011		
70202	Open two sets of control cabinet doors and later close.	.006		
70203	Turn on air compressor, run to clear condensation from air lines.	.025		
70204	Visually inspect air lines and read gages.	.116		
70205	Check electrical control panels and breakers.	.072		
70206	Unlock and open drywell.	.011		
70207	Descend and ascend drywell ladder.	.023		
70208	Inspect sewage pump for obstructions, leaks, or damage.	.123		
70209	Inspect drywell sump pump for proper operation.	.030		
70210	Inspect drywell for water.	.047		
70211	Open wet well, visually check and close.	.055		
70212	Chop weeds around station area.	.063		
70213	Hose down area with clean water.	.130		
70214	Change filter in monitor panel.	.002		
70215	Inspect emergency eye wash.	.024		
70216	Check lighting around station.	.059		
70217	Carry tools to and from truck.	.026		
70218	Fill out inspection report.	.017		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
SEWAGE PUMPING STATION		70225		
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
70226	Unlock padlock on door, open and close door, and lock.	.011		
70227	Open two sets of control cabinet doors and later close.	.006		
70228	Turn on air compressor, run to clear condensation from lines and turn off.	.025		
70229	Visually inspect air lines and read gages.	.116		
70230	Descend and ascend stairs to pump room.	.014		
70231	Check electrical control panels and breakers.	.072		
70232	Inspect sewage pumps for proper operation, leaks, or damage.	.123		
70233	Inspect exterior condition of pump.	.041		
70234	Check pump room for water seepage or leaks.	.094		
70235	Check pump sight glass for oil level and add oil as needed.	.007		
70236	Wash down pumps with fresh water from hose.	.097		
70237	Hose down pump room floor with fresh water and sprinkle chlorine powder over floor and pump bases.	.259		
70238	Inspect wet well.	.055		
70239	Inspect sump pump for proper operation.	.030		
70240	Check filter and replace as needed.	.007		
70241	Inspect emergency eye wash.	.024		
70242	Inspect pump room lighting.	.059		
70243	Carry tools to and from truck.	.026		
70244	Fill out inspection report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
SEWAGE LIQUID RHEOSTAT (FLOMATCHER)		70275		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
70276	Read maintenance manual for familiarity with unit.	.018		
70277	Gain access to sewage pump room with shop key.	.011		
70278	Inspect operation of liquid rheostat.	.025		
70279	Clean, lube and check oil in air compressor.	.054		
70280	Clean and lubricate circulating pump.	.047		
70281	Turn off unit and check electrolyte level.	.013		
70282	Add pure distilled water to full mark.	.009		
70283	Check piping for leaks.	.059		
70284	Check for excessive electrolyte temperature.	.001		
70285	Perform conductivity check with conductivity bridge and drawn sample.	.171		
70286	Bleed air from system.	.010		
70287	Check zero setting of electrodes.	.031		
70288	Check belt tension and alignment. Replace belt as needed.	.044		
70289	Drain, flush and clean system. Mix and add solution.	.098		
70290	Clean up work area.	.051		
70291	Fill out maintenance report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
SWIMMING POOL		75100		
CHECK-POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
75101	Test pool water sample to obtain chlorine residual reading.	.029		
75102	Test pool water sample to obtain PH reading.	.029		
75103	Take temperature reading of pool water.	.004		
75104	Backwash pool water filter.	.120		
75105	Add soda ash to feeder.	.105		
75106	Check recirculating pump and motor for proper operation.	.094		
75107	Clean out interceptor basket.	.031		
75108	Check slurry pump.	.042		
75109	Clean chlorinator and check for signs of deterioration due to chlorine leaks.	.044		
75110	Check overflow drain line and vent line for obstructions. Adjust float assembly in make-up/overflow bowl.	.016		
75111	Check all piping, valves, and fittings for leaks. Make minor repairs as necessary.	.029		
75112	Check slurry supply tank. Replenish filter aid as required.	.158		
75113	Change chlorine bottles.	.122		
75114	Check vacuum equipment.	.174		
75115	Check recirculating pump for leaks and unusual noises. Lubricate as required.	1.178		
75116	Check sump pump for leaks or unusual noises. Lubricate as required.	.059		
75117	Check heat exchanger and controls. Lubricate and repair as necessary.	.289		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

EQUIPMENT DESCRIPTION		STANDARD NO. 75100		
SWIMMING POOL (Continued)				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
75118	Check chlorine gas mask for frayed or worn parts. Check for proper fit and leaks. Clean eye pieces.	.015		
75119	Clean chemical feed pump head.	.232		
75120	Change oil in chemical feed pump.	.019		
75121	Calibrate pool gauges.	.232		
75122	Inspect sand filter.	.362		
75123	Report major defects.	.020		
75124	Fill out maintenance record or report.	.017		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
VENTILATOR, POWER - 1 HP OR LESS		80100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
80101	Open and close roof mounted fan housing. Stop and start fan with local switch.	.013		
80102	Stop and start wall mounted fan with remote switch or circuit breaker	.009		
80103	Remove or install access panel, bolted or screwed on	.118		
80104	Remove and install fan guard, bolted or screwed on	.273		
80105	Remove and install fan shutter (non-motorized)	.275		
80106	Check motor bearings and windings for overheating	.007		
80107	Check fan shaft bearings for overheating	.005		
80108	Clean roof mounted ventilator components	.110		
80109	Clean wall mounted fan components	.282		
80110	Check "V" belt for wear, tension and alignment. Change/adjust belt as necessary	.022		
80111	Lubricate fan motor bearing oil hole/ball cover - 2 ea.	.036		
80112	Lubricate fan shaft bearings (zeak fittings-2 ea)	.022		
80113	Lubricate shutter (non-motorized)	.040		
80114	Perform mechanical inspection for roof mounted fan	.085		
80115	Perform mechanical inspection for wall mounted fan	.086		
80116	Perform electrical inspection of roof mounted or wall mounted fan	.026		
80117	Conduct operational check	.070		
80118	Travel on foot to the next roof mounted ventilator on the same roof	.009		
80119	Fill out maintenance record	.017		
3 TOTAL EPS CRAFT HOURS				



## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
NATURAL GAS DISTRIBUTION SYSTEM		85100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
85101	Use chart to locate natural gas pipelines, valves and meters.	.074		
85102	Inspect above ground natural gas pipeline for rust, corrosion, loose connections or damage per 10 feet of pipeline. per 10 ft.	.025		
85103	Perform soap solution test on pipeline to locate leaks per 10 feet of pipeline. per 10 ft.	.008		
85104	Inspect area of underground pipeline for dead grass or foliage indicating gas leaks per 10 feet of pipeline. per 10 ft.	.001		
85105	Inspect pressure valve operation and check for clogged vents or screens. per valve	.027		
85106	Inspect reducing valve operation and check for clogged vents or screens.	.027		
85107	Inspect and lubricate sectional shut off valves. per valve	.046		
85108	Inspect gas cut off valve operation and check for damage, accessibility and good location. per valve	.048		
85109	Test valve or meter for leaks using soap solution. per unit	.008		
85110	Check and calibrate gas meters. per meter	.001		
85111	Test meter or valve pit for gas leak and clean as needed. per pit	.098		
85112	Replace section of pipe to stop leak.	.204		
85113	Clean and paint valve or meter. per unit	.110		
85114	Clean and spot paint pipeline per 10 linear feet. per 10 ft.	.092		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

85100

NATURAL GAS DISTRIBUTION SYSTEM  
(Continued)

CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
85115	Clean natural gas system area after maintenance.	.051		
85116	Fill out maintenance report.	.017		
<sup>3</sup>	TOTAL EPS CRAFT HOURS			

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
ELEVATOR, FREIGHT - HYDRAULIC		86100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
86101	Check with operating personnel for any known discrepancies	.066		
86102	Place out of service sign at elevator door on each floor per floor	.003		
86103	Ride elevator and observe operation of indicator lights, floor alignment and door operation.	.040		
86104	Raise car to maximum height and check sight glass for hydraulic oil level.	.030		
86105	Inspect hydraulic lift post for wear or leaks.	.039		
86106	Clean hydraulic room and wipe fluid tank.	.059		
86107	Inspect, clean and tighten valves.	.055		
86108	Inspect and clean motor contactors.	.114		
86109	Inspect motor and adjust belt.	.138		
86110	Empty drip pan and apply oil dry or similar to floor of hydraulic room.	.061		
86111	Inspect and test control relays and check wiring terminals.	.105		
86112	Lower car one half floor and add oil to rail oilers.	.060		
86113	Lower car one half floor at each floor and inspect and adjust rollers and operator.	.184		
86114	Clean operators and tracks at each floor.	.018		
86115	Clean top of car with broom and pick up debris.	.116		
86116	Climb to top of car and inspect limit switches.	.052		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
ELEVATOR, FREIGHT - HYDRAULIC (Continued)		86100		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
86117	Inspect door alignment, rollers and guide track for cleanliness and clearance.	.089		
86118	Oil gate tracks, chains and door lock mechanism.	.154		
86119	Get and put away tools as needed at each floor.	.007		
86120	Fill out inspection reports after maintenance.	.033		
3 TOTAL EPS CRAFT HOURS				

# P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
ELEVATOR, FREIGHT - TRACTION		86125		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
86126	Check with operating personnel for any known discrepancies.	.066		
86127	Place out of service sign at each floor elevator door. per floor	.003		
86128	Test ride elevator and check operation of doors, leveling, indicator lights and for unusual noises. per floor	.079		
86129	Inspect and clean pit, test safety switches and inspect oil buffers.	.153		
86130	Inspect and wipe down motor, check oil and adjust belts.	.154		
86131	Inspect, wipe down, lubricate and adjust brake.	.078		
86132	Adjust and lubricate gears and check for bearing wear.	.053		
86133	Inspect and adjust controller contacts, relays, and all connections.	.521		
86134	Inspect, lubricate and adjust gates.	.098		
86135	Inspect, clean and lubricate hoistway gate.	.502		
86136	Clean, lubricate and adjust gate operator.	.087		
86137	Inspect mechanical electrical interlock.	.072		
86138	Lubricate tracks with brush and grease. per floor	.141		
86139	Inspect and lubricate door lift sheaves and cable.	.143		
86140	Lower car one half floor and clean top of car.	.116		
86141	Lower car and add oil to oilers on top of car.	.060		
3 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET.

EQUIPMENT DESCRIPTION		STANDARD NO. 86125		
ELEVATOR, FREIGHT - TRACTION (Continued)				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
86142	Lower car and inspect cables, sheaves, switches and brake shoe clearances.	.548		
86143	Inspect, lubricate and adjust governor.	.071		
86144	Inspect elevator car alarm and communication system and light fixture.	.024		
86145	Inspect car emergency switch for operation, broken glass or other obstruction.	.175		
86146	Inspect, lubricate and adjust selector brushes, dashpots, cables, chains and magnets.	.125		
86147	Check operation of leveling switches.	.005		
86148	Get and put away tools at each floor. per floor	.007		
86149	Fill out inspection report after maintenance.	.033		
<sup>3</sup> TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO.		
ELEVATOR, PASSENGER/FREIGHT - CABLE		86150		
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	1 Occur	2 TOTAL
86151	Check with operating personnel for any known discrepancies.	.066		
86152	Place out of service sign at each elevator door opening. per floor	.003		
86153	Ride elevator and check operation, indicator lights, leveling, door operation and for unusual noises. per floor	.079		
86154	Inspect and clean pit, test safety switches and inspect oil buffers.	.153		
86155	Inspect and wipe down motor, check oil and adjust belts.	.154		
86156	Inspect, wipe down, lubricate and adjust brake.	.078		
86157	Inspect main cables and sheaves for wear or damage. per floor	.294		
86158	Inspect, wipe down and grease driveshaft while rotating by hand.	.046		
86159	Lubricate tracks with brush and grease. per floor	.141		
86160	Inspect and adjust controller contacts, relays, and all connections.	.521		
86161	Inspect, lubricate and adjust selector brushes, dashpots, cables, chains and magnets.	.125		
86162	Inspect, lubricate and adjust governor.	.072		
86163	Lower car one half floor and clean top of car.	.116		
86164	Lower car one half floor and add oil to oil lubricators.	.064		
86165	Inspect, lubricate and adjust passenger elevator doors.	.120		
1 TOTAL EPS CRAFT HOURS				

## P/R M STANDARDS SHEET

EQUIPMENT DESCRIPTION		STANDARD NO. 86150		
ELEVATOR, PASSENGER/FREIGHT - CABLE (Continued)				
CHECK- POINT NO.	CHECKPOINT DESCRIPTION	EPS CRAFT HOURS	<sup>1</sup> Occur	<sup>2</sup> TOTAL
86166	Inspect, lubricate and adjust freight elevator gates.	.154		
86167	Inspect elevator car alarm, communication system and light fixture.	.024		
86168	Inspect elevator car emergency switch for proper operation, broken glass and poor location or obstruction.	.175		
86169	Check operation of leveling switches and adjust as needed.	.005		
86170	Get and aside tools as needed at each floor. per floor	.007		
86171	Fill out maintenance report.	.033		
<sup>3</sup> TOTAL EPS CRAFT HOURS				



## STANDARDS INDEX

Standard No.

<b>Air Compressor</b>	
Air-cooled Electric .....	25100
Single Water-cooled; Gas or Diesel .....	25200
Tandom Wafer-cooled; Gas or Diesel .....	25175
<b>Air Conditioning</b>	
Compressor, Air Conditioning - 3 ton through 100 ton .....	10800
Package Unit .....	10750
Window Unit .....	10850
<b>Air Conditioning System .....</b>	<b>10000</b>
<b>Air Distribution System .....</b>	<b>25250</b>
<b>Air Dryer, Pneumatic Controls .....</b>	<b>12200</b>
<b>Airfield Equipment .....</b>	<b>15000</b>
<b>Airfield Flares, Wave-off .....</b>	<b>15250</b>
<b>Airfield Lighting</b>	
Arresting Gear Marker .....	15225
Elevated Fixture .....	15125
Optical Landing System .....	15175
Runway Distance Marker .....	15200
Semi-flush Fixture .....	15100
Sequenced Flashing Lights .....	15150
<b>Air Handler</b>	
3 ton through 24 ton .....	10500
25 ton through 99 ton .....	10600
100 ton through 250 ton .....	10700
<b>Alarm Systems, Security and Intrusion .....</b>	<b>20100</b>
<b>Arresting Gear Retrieve Engine .....</b>	<b>15300</b>
<b>Arresting Gear (excluding Retrieve Engine) .....</b>	<b>15275</b>
<b>Barminutor, Sewage Disposal Plant Equipment .....</b>	<b>70125</b>
<b>Bathroom/Restroom Fixture .....</b>	<b>60100</b>
<b>Battery Charger (Rectifier Type) .....</b>	<b>35175</b>
<b>Battery, Storage .....</b>	<b>35225</b>
<b>Beverage Dispenser, Carbonated Beverages .....</b>	<b>55675</b>
<b>Boiler, Pulse Combustion Heating Plant .....</b>	<b>45600</b>
<b>Braising Pan, Tilting .....</b>	<b>55375</b>
<b>Bread Slicer .....</b>	<b>55275</b>
<b>Bridge Crane .....</b>	<b>50400</b>
<b>Broaster, Pressurized Deep Fat Fryer .....</b>	<b>55225</b>
<b>Broiler</b>	
Conveyor Type .....	55475
Hot Dog .....	55425
Oven (Salamander) .....	55125
<b>Cathodic Protection .....</b>	<b>35275</b>
<b>Chlorinator, Water Distribution System .....</b>	<b>61150</b>
<b>Chain Hoist, Manual - up to 5 ton Capacity .....</b>	<b>50100</b>
<b>Circuit Breaker, Air .....</b>	<b>35150</b>
<b>Clarifier, Sewage Disposal Plant Equipment .....</b>	<b>70100</b>
<b>Clothes Dryer, Laundry .....</b>	<b>57200</b>
<b>Clothes Washer, Laundry .....</b>	<b>57100</b>
<b>Coffee Maker/Urns .....</b>	<b>55100</b>

	<u>Standard No.</u>
Compressed Air Distribution Systems .....	25000
Compressor, Air	
Air Conditioning - 3 ton through 100 ton .....	10800
Air-cooled Electric .....	25100
Single Water-cooled; Gas or Diesel .....	25200
Tandem Water-cooled; Gas or Diesel .....	25175
Compressor, Air Conditioner, 3 ton through 100 ton .....	10800
Condenser	
Air cooled - 3 ton through 25 ton .....	10100
Air cooled - 26 ton through 100 ton .....	10200
Evaporative/Water Cooling tower - 3 ton through 25 ton .....	10300
Evaporative/Water Cooling tower - 26 ton through 100 ton ....	10400
Condensing Unit, Water cooled .....	10250
Controller, Pneumatic .....	12100
Controls, HCV - Pneumatic/Electronic .....	12000
Cookie Maker .....	55775
Cooling Tower, Water	
3 ton through 25 ton .....	10300
26 ton through 100 ton .....	10400
Crane, Bridge .....	50400
Damper Unit .....	10450
Deep Fat Fryer	
Automatic Conveyor Belt Type .....	55175
Conventional Type .....	55200
Pressurized - Broaster .....	55225
Dishwasher .....	55250
Dispenser, Carbonated Beverage .....	55675
Disposal, Garbage .....	55450
Door, Overhead Fire .....	30100
Door, Overhead Roller Curtain, Manual, up to 16' high	
X 15' wide .....	30150
Door, Overhead Roller Curtain, Manual, from 16' 1" to 24' high	
X 15' 1" to 25' wide .....	30175
Door, Overhead Roller Curtain, Motor Driven, up to 16' high	
X 15' wide .....	30200
Door, Overhead Roller Curtain, Motor Driven, from 16' 1" to 24' high	
X 15' 1" to 25' wide .....	30225
Door, Sliding Hangar .....	30125
Doors, Overhead and Sliding .....	30000
Dough Divider .....	55925
Dough Roller .....	55725
Dryer, Domestic Laundry .....	57200
Electrical      Power Distribution Equipment	
Exterior .....	35500
Interior .....	35625
Electrical Systems and Equipment .....	35000
Elevators .....	86000
Elevator	
Cable Passenger/Freight Elevator .....	86150
Hydraulic Freight Elevator .....	86100
Traction Freight Elevator .....	86125

	<u>Standard No.</u>
Emergency Generator - up to 15 KVA .....	35925
Emergency Generator - Greater than 15 KVA .....	35950
Emergency Light .....	35650
Emergency Power Unit .....	35425
Evaporative Cooler .....	
3' X 3' X 4' - Winter Maintenance .....	10925
5' X 5' X 5' - Winter Maintenance .....	10950
4' Rotating Drum - Winter Maintenance .....	10975
Exterior Power Distribution Equipment .....	35500
Fan Coil Unit .....	10875
Fire Alarm - Municipal Type Auxiliary Circuit Pull Box .....	40300
Fire Alarm - Municipal Type Master Fire Alarm Box .....	40200
Fire Door, Overhead .....	30100
Fire Protection Equipment .....	40000
Fire Protection .....	
Dry Sprinkler System .....	40600
Electric Power Sources (Batteries, Chargers, Transformers)...	40425
Hydrant .....	40775
Sprinkler Alarm Valve .....	40100
Water Pumping Facility and Distribution System .....	40450
Wet Sprinkler System .....	40675
Fixture, Bathroom/Restroom .....	60100
Flares, Airfield Wave-off .....	15250
Food Chopper .....	55300
Food Saw .....	55400
Food Slicer .....	55350
Food Warmer, Electric .....	55275
Forced Air Heating System, Gas or Oil Fired .....	45200
Freezer, Refrigerator-Freezer Combination - Two (2) door .....	11175
Fresh Water Distribution .....	
Backflow Prevention Device .....	61300
Chlorinator .....	61150
Chlorine Detector .....	61225
Filter Plant .....	61325
Fluoride Saturator .....	61175
Meter; PM and Calibrate .....	61250
Pumping Station .....	61100
Reservoir Controls .....	61375
Storage Tank .....	61200
Valve (Typical 6" Diameter) .....	61275
Water Softener .....	61350
Galley .....	see Kitchen Equipment
Garbage Disposal .....	55450
Gas Distribution .....	see Natural Gas Distribution
Gas Heating System, Forced Air .....	45200
Gaylord Hood and Blower .....	55950
Generator, Emergency - up to 15 KVA .....	35925
Generator, Emergency - Greater than 15 KVA .....	35950
Gloves, Linemen's Rubber Insulating .....	35475
Grill .....	55500

	<u>Standard No.</u>
HCV Controls .....	12000
Heater, Water - Gas or Oil Fired .....	45300
Heat Exchanger, Tube Bundle; Steam .....	45400
Heating Systems and Equipment .....	45000
Heating System	
Forced Air; Oil or Gas Fired .....	45200
Low Pressure Steam/Hot Water; Oil, Gas or Combination Fired .....	45100
Heat Pump Unit, Residential .....	10900
Hoist	
Electric, Chain or Wire Rope - Up to 5 ton Capacity .....	50300
Manual, Chain - Up to 5 ton Capacity .....	50100
Pneumatic, Chain or Wire Rope - Up to 5 ton Capacity .....	50200
Portable .....	50500
Hood and Blower, Gaylord .....	55950
Ice Machine, Flake/Cube; Refrigeration.....	11200
Ice Machine, Flake/Cube; Kitchen Counter.....	55875
Interior Electric Distribution .....	35625
Intrusion and Security Alarm Systems .....	20100
Kettle, Steam; Tilt .....	55625
Kettle, Steam; Fixed .....	55650
Kitchen Equipment .....	55000
Laundry Equipment .....	57000
Lighting, Airfield .....	see Airfield Lighting
Liquid Transfer Pumps .....	65000
Manhole, Electrical Distribution .....	35025
Meter, Water .....	61250
Mixer, Counter .....	55550
Mixer, Floor .....	55525
Natural Gas Distribution .....	85000
Natural Gas Distribution System .....	85100
Oil Fuse Cutout, Pole Mounted .....	35125
Oil Heating System, Forced Air .....	45200
Oven	
Convection .....	55150
Rotary .....	55600
Overhead and Sliding Doors .....	30000
Peeler, Vegetable .....	55800
Petroleum - Oil - Lubricant (POL) Systems .....	66000
Pie Maker .....	55825
Plumbing .....	60100
Pneumatic Controls	
Air Dryer, Pneumatic Controls .....	12200
Pneumatic Controller .....	12100
Pneumatic Valve Operator .....	12125
Pneumatic Thermostat .....	12150
POL (Petroleum - Oil - Lubricant) Systems	
Fuel Strainer, Basket - 8" Diameter Typical .....	66175
Fuel Strainer, "Y" - 8" Diameter Typical .....	66150
Fuel/Water Separator .....	66225
Systems (Valves, Piping, etc.) .....	66100
Storage Tank, Above and Below Ground Fuel .....	66200
Proofer, Automatic .....	55575

Pumps, Liquid Transfer	
Air Lift Well Pump .....	65250
Centrifugal Ejector Pump .....	65300
Centrifugal Velocity Pump .....	65150
Fractional HP Sump Pump .....	65350
Metering (Slurry) Pump .....	65125
Mixed or Axial Flow Velocity Pump .....	65200
Reciprocating Displacement Pump .....	65100
Rotary Displacement Pump .....	65175
Turbine Well Pump .....	65225
Refrigeration Systems .....	11000
Refrigerator, Domestic .....	11100
Refrigerator/Chill Box/Freezer, Walk-in Box .....	11150
Refrigerator/Display Case/Freezer, Reach-in Box (Upright and Chest Type) .....	11125
Refrigerator-Freezer Combination - Two (2) door .....	11175
Relay, Protective .....	35100
Security and Alarm Systems .....	20000
Security/Intrusion Alarm System .....	20100
Sewage Disposal Equipment .....	70000
Sewage Disposal Plant	
Barminutor .....	70125
Clarifier .....	70100
Sewage Lift Station - Motor Control Center .....	70150
Sewage Liquid Rheostat (Flomatcher) .....	70275
Sewage Pumping Station	
Drywell Type .....	70200
Wetwell Type .....	70225
Signal Light, Traffic .....	35450
Sprinkler System, Fire Protection	
Alarm Valve .....	40100
Dry Sprinkler System .....	40600
Wet Sprinkler System .....	40675
Static Grounds .....	35400
Steam Distribution Equipment .....	45500
Steam Distribution System	
High Pressure .....	45550
Waterfront and Pier .....	45575
Steamer, Vegetable .....	55850
Steam Table .....	55700
Sump Pump; Fractional HP .....	65350
Swimming Pool Equipment .....	75000
Swimming Pools .....	75100
Thermostat	
Electronic .....	12175
Pneumatic .....	12150
Toaster, Rotary .....	55750
Traffic Signal Light .....	35450

Standard No.

Utility Pole, Wood .....	35075
Valve Operator, Pneumatic .....	12125
Ventilation .....	80000
Ventilator, Power - 1 HP or Less .....	80100
Washer, Domestic Laundry .....	57100
Water Cooling Tower	
3 ton through 25 ton .....	10300
26 ton through 100 ton .....	10400
Water Distribution .....	see Fresh Water
Water Heater - Gas or Oil Fired .....	45300
Water Meter .....	61250
Water Softener .....	61350
Water Valve (Typical 6" Diameter) .....	61275
Weight Handling Equipment .....	50000

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# P/R M COMPUTATION SHEET

EQUIPMENT DESCRIPTION

STANDARD NO.

1 JO #

2 LOCATION

3 CRAFT/WORK CENTER

4 TRAVEL ZONE

5 CREW SIZE

6 FREQUENCY

7 TOTAL EPS CRAFT HOURS (FROM PREVIOUS SHEET)

8 GENERAL DATA FACTOR (FROM PAGE )

9 TOTAL EPS TIME (LINE 7 X LINE 8)

10 CHECK-  
POINT NO.

11

ADDITIONAL CHECKPOINTS

12 NON  
EPS HOURS

13 Occur

14 TOTAL

15 TOTAL NON EPS TIME (SUM OF COLUMN 14)

16 TOTAL EPS TIME (LINE 9)

17 TOTAL JOB TIME (LINE 15 + LINE 16)

SHEET \_\_\_\_ OF \_\_\_\_